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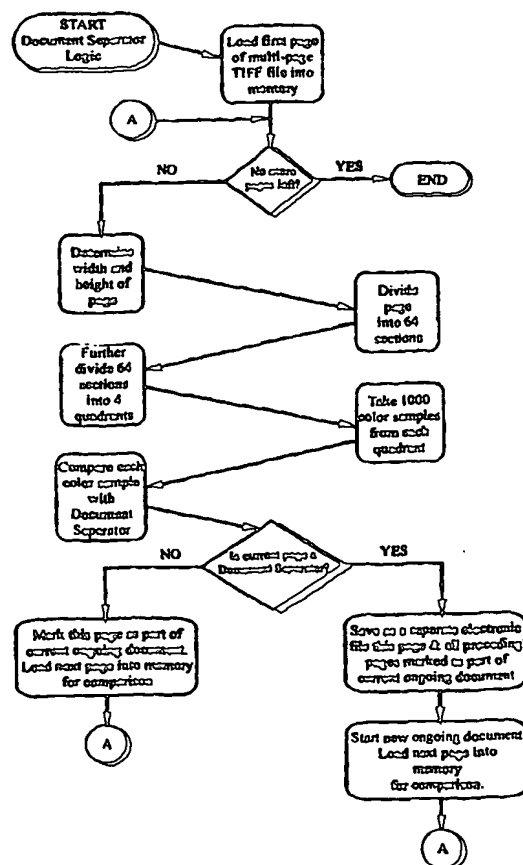
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(54) Title: METHOD AND APPARATUS FOR SCANNING AND MANAGING DOCUMENT IMAGES

(57) Abstract

A document management system wherein efficient and high-speed inputting of a voluminous number of documents is facilitated by means of a document separator, where said document separator contains a predetermined unique graphic image, which said image is interpreted by said system to perform a predetermined set of tasks. A document management system wherein said system is modular in design and permits user to select individual software components to be used with said system.



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METHOD AND APPARATUS FOR SCANNING AND MANAGING DOCUMENT IMAGES

CROSS-REFERENCE TO RELATED APPLICATIONS

5 The present application claims the benefit of 35 U.S.C. 111(b) provisional application Serial No. 60/029,425 filed October 22, 1996, and Serial No. 60/028,985, filed October 22, 1996, entitled Method and Apparatus for Scanning and Managing Document Images and Method and Apparatus for Computer Instruction Via Digitized Images. Both of these provisional applications are incorporated by reference, as if fully set forth herein.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

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Not applicable.

BACKGROUND OF THE INVENTION

Field of the Invention

15 The present invention relates to a method and apparatus for a scanning and document management system using hardware and computer software technology. More particularly the present invention relates to the industry catering to users of document management systems and instruction of computers via digitized images.

Description of Related Art

20 The document management industry is constantly struggling with problems associated with efficient and cost-effective management of voluminous documents. The industry lacks cost-efficient computerized document management system capable of handling the input of a voluminous number of documents into a computer system. Thus one of the biggest stumbling blocks with the present technology is the inability to quickly and efficiently input voluminous number of documents into an imaging database. Current document management systems
25 employ a complicated arrangement of user interfaces that require extensive training in order to adequately utilize the system. Databases with complicated user interfaces are very expensive to implement in an organization. This presents a cost barrier to an organization contemplating installation of such a system.

30 Another shortcoming of the state of the art is the lack of a self-configuring database. The problem to be solved is in the design and implementation of a system that allows all technical functions to be handled by the program behind the scenes and keep the user interface as simple as possible. A simple user interface allows the performance of various different tasks behind the scenes by a simple click of a mouse button. Every such step that can be

performed behind the scenes cuts down the cost of implementation and use. For example, the scanning of documents into the system involves many different tasks. The economic advantage of such an improvement over the prior art is the ability to use low-level employees to run the system without the need for any specialized expensive training and knowledge.

5 The following references are hereby incorporated by reference in their entirety:

- (1) Dan Haught & Jim Ferguson, Microsoft Jet Database Engine Programmer's Guide, Microsoft Press, 1995
- (2) Michelle A. Poolet & Michael D. Reilly, Access95 Client/Server Development, QUE Corporation, 1996
- 10 (3) James D. Murray & William VanRyder, Encyclopedia of Graphics File Formats, O'Reilly & Associates, 1994
- (4) Michael Amundsen & Curtis Smith, Teach Yourself Database Programming with Visual Basic 4 in 21 Days, Sam's Publishing, 1996
- (5) Zane Thomas Et al, Visual Basic 4 How -To, The Waite Group Press, 1995

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BRIEF SUMMARY OF THE INVENTION

The present invention relates to a method and apparatus for a scanning and document management system using hardware and computer software technology. More particularly, the present invention relates to an efficient methodology for scanning, generating instructions to be performed by a computer based on unique images digitized into the computer, converting to
20 editable and searchable text, organizing and separating in electronic storage, labeling, annotating, viewing, accessing, manipulating, searching and printing of documents. A document consists of one or more pages or sheets containing text and/or graphic symbols. The pages or sheets comprising a document may be derived from any source, including scanned pages and captured
25 video. A document may be in color, in black and white or both. The invention is useful for various commercial applications such as for example in a law practice for case litigation support imaging database to keep track of a plurality of documents produced during litigation.

The present invention comprises a scanning and document management system with a mechanism for generating instructions to be performed by a computer based on unique images
30 digitized into the computer, which preferably includes a scanning device electronically coupled to software-enabled computer. In the preferred embodiment, the enabling software for scanning, converting to editable and searchable text, organizing and separating in electronic storage, labeling, annotating, viewing, accessing, manipulating, searching, and printing of documents is resident on

the computer. However, as one skilled in the art will appreciate, the software module for controlling the scanning device may be loaded as part of the scanning device, or scanning device and computer may be loaded with portions of the software module.

5 The method and apparatus for generating instructions to be performed by a computer based on unique images digitized into the computer is facilitated by a unique graphic pattern embodied on a physical medium, such as a sheet of paper or video tape. The image is electronically digitized into a computer. For example, the image on sheet of paper is digitized by scanning the sheet into the computer. Similarly, the image on a video tape may be digitized into the computer by processing the analog video signals through a commercially available
10 hardware add-on board installed in the computer. The add-on board contains electronic circuitry capable of converting analog video signals to digital video signals. Commercially available presentation software permits viewing of the digital video on the computer monitor. Additionally, the software contains functionality to freeze a particular video frame to save as an individual digitized image. This image may contain a unique graphic pattern designed to provide
15 one or more instructions to the computer. A special software module examines and interprets the digitized image and thus produces one or more computer instructions. The computer executes the generated instructions to produce a desired result. An example of a practical application of this invention is in the use of a physical document separator, containing a unique graphic pattern (image), to mark the beginning and end of each document in a large volume of
20 documents scanned collectively into a computer as a single electronic file. A software module is used to examine and recognize the document separator images and thus produce and store a separate electronic file for each individual document contained in the single larger electronic file containing a plurality of documents. This is particularly desirable in various commercial applications such as in a law practice case litigation support imaging database where large
25 volumes of documents are scanned to be electronically managed and used.

BRIEF DESCRIPTION OF THE DRAWINGS

30 A better understanding of the present invention can be obtained when the following detailed description of the preferred embodiment is considered in conjunction with the following drawings, in which:

Figure 1 is a block diagram of a computer system with attached accessories according to the present invention;

Figure 2 is a flowchart depicting the Document Separator logic of the preferred embodiment of the present invention;

Figure 3 is a screen shot showing the PC START screen;

Figure 4 is a screen shot showing the Main Information Screen (MIS);

5 Figure 5 is a screen shot of Watermark Professional Editor;

Figure 6 shows the contents of the CDINFO.DAT file;

Figure 7 is a screen shot of the Briefing Tool;

Figure 8 is a screen shot of the Transcript Viewer;

Figure 9 is a screen shot of the ISYS Query screen;

10 Figure 10 is a screen shot of the ISYS Search screen;

Figure 11 is a screen shot of the Word Wheel search screen;

Figure 12 is a screen shot of the System Settings screen;

Figure 13 is a screen shot of the Preferences screen;

15 Figure 14 is a screen shot of the Report Names screen which enables running of reports;

Figure 15 is a screen shot of the Report Names screen which enables naming of reports;

Figure 16 is a screen shot of the Duplicates Screen;

Figure 17 is a screen shot of the Exhibit List screen;

20 Figure 18 is a screen shot of the Litigation Bates Number Label Maker screen;

Figure 19 is a screen shot of the Litigation Document Number Label Maker screen;

Figure 20 is a screen shot of the Tempest Image Printer screen;

Figure 21 is a screen shot of Luke's Watermark Scan Utility screen;

Figure 22 depicts the Document Separator of the preferred embodiment;

25 Figure 23 is an example of a multi-page TIFF file;

Figure 24 shows a page divided into sixty-four sections;

Figure 25 shows further division of the sixty-four sections into four quadrants;

Figure 26 is an overlay of the 64 sections and 4 quadrants on a document page;

30 Figure 27 is an overlay of the 64 section and 4 quadrants on the designated Document Separator;

Figure 28 shows documents separated after execution of the Document Separator module;

Figure 29 is a screen shot of the Watermark Exhibit Scan Utility; and

Figure 30 is a screen shot of Luke's Automated OCR'ing Utility.

DETAILED DESCRIPTION OF THE INVENTION

According to the preferred embodiment, software for the present invention is developed using Microsoft's Visual Basic programming language in 32-bit mode. The software portion of the preferred embodiment uses Microsoft Jet as the database engine.

Referring first to Figure 1, an illustrative computer system 1-100 which is programmed according to the present invention and which operates according to the present invention is shown. The computer system 1-100 generally comprises a video display system 1-110, a keyboard 1-120, and a mouse 1-130. The computer system 1-100 also preferably includes various standard components, including at least one central processing unit (CPU), memory, a hard drive, a CD-ROM drive, a floppy disk drive, one or more buses, and a power supply. The computer system 1-100 of the preferred embodiment, includes a 200 Mhz Pentium MMX CPU, 32 megabytes of random access memory (RAM), 4 gigabytes of hard disk space, a 24X CD-ROM drive, 3.5" 1.4 megabyte floppy disk drive, a 17 inch monitor with 1024x768 resolution and a similarly equipped video card. In the preferred embodiment, the software program is stored on a CD-ROM disk 1-400, floppy disks 1-500 and/or hard drive of the computer 1-100 for execution by the CPU. The preferred embodiment of the present invention also includes a high-speed scanner 1-200, such as the commercially available Fujitsu scanner M3093GX, connected to the computer system 1-100. The preferred Fujitsu scanner is rated with a scanning speed of 27 pages per minute and is capable of 200 to 400 DPI resolution. Alternatively, any industry standard, i.e., TWAIN compliant, scanner with scanning speed of 24 to 30 pages per minute and 200 to 400 DPI resolution will satisfy the requirements of the preferred embodiment. The preferred embodiment uses the optional sheet feeder 1-210 of the scanner 1-200 to facilitate high speed scanning of documents into the system. The present invention preferably implements a document separator 1-300 placed at the end of each document to separately define the beginning and end of each document in a stack. A high-speed laser printer 1-600, also preferably is attached to the computer system 1-100. The preferred embodiment uses the foregoing components to practice the present invention, as described below. One skilled in the art will understand, however, that modifications or omissions may be made to the list of preferred components without departing from the principles of the present invention.

The preferred embodiment of the present invention uses software containing various

programming modules. The software portion of the preferred embodiment of the present invention is incorporated in its entirety and attached as the Appendix. Referring now to page 4 of the Appendix, the PC START module functions as the main menu for the database management system. The PC START module is an overlay program that acts as the master control program to manage a plurality of databases. In the preferred embodiment, each document database contains information on a lawsuit or legal case, although the present invention has other applications. Referring now to Figure 3, the PC START screen provides the user with options to perform various functions on each case database. For example, the user can select functions such as Load Case 3-100, Create Case 3-200, Delete Case 3-300, Repair Case 3-400 and Compress Case 3-500. Furthermore, the user can perform various system administration functions by selecting System Admin 3-600, produce labels by selecting Make Labels 3-700 or print documents by selecting Print Docs 3-800. The Current Cases list-box 3-900 permits the user to select which case database(s) will be impacted by selection of one or more of the foregoing functions.

Referring now to pages 2 to 3 of the Appendix, the Load Case module enables the user to load the selected case 3-900 into the computer system's memory 1-100. In order to load a case, the case must exist in the Current Cases list-box 3-900. The Main Information Screen (MIS), Figure 4, is displayed upon selection of the Load Case 3-100 option from the PC START screen. (Figure 3). The MIS, Figure 4, contains the document image and document briefing information. Document briefing is accomplished by the entry of summary text into various fields on the MIS such as "To" 4-110, "From" 4-120, "CC's" 4-130, "Description" 4-140 and "Comments" 4-150. Each of the foregoing briefing fields can be searched while in the MIS, Figure 4, by simply double-clicking on the desired field to search.

Case Issues 4-200 on the MIS, Figure 4, enable the user to designate special characteristics of the currently displayed document in document thumbnail 4-300. The special characteristics are designated by placing a checkmark in the box provided to the right of each Case Issue 4-200. The use of Case Issues enables a novice user to produce sophisticated reports without any programming on the part of the user. For example, the user can easily produce a report containing all documents in the case database which involve expert testimony. Pages 15 to 17 of the Appendix show the programming logic to produce the reports based on case issues defined and selected by the user. Case Issues 4-200 are user-defined and thus are not predetermined by the system. The user defines case issues relevant to a case database in the Preferences screen, Figure 13. Referring now to page 41 of the Appendix, the

Preferences screen, Figure 13, is selected by clicking on the Settings button 12-200 of the System Settings screen, Figure 12. In the Preferences screen, Figure 13, the user performs a one-time setup of chosen case issues by entering a case issue in each field of the data entry row 13-100. The case issues entered in the data entry row 13-100 are relationally connected to the Case Issues 4-200 on the MIS, Figure 4, the report screens, Figures 14 and 15, and all associated program code and tables. The Preferences screen, Figure 13, additionally permits the user to determine system folders 13-200 in which files related to a particular case database will reside on the computer system 1-100.

Referring now to page 15 of the Appendix, the document thumbnail 4-300 will be displayed in an individual window if the user double-clicks on the document thumbnail 4-300 using the mouse 1-130 or selects the Go To button 4-410. Any commercially available image-viewing program may be used to display the thumbnail document 4-300. The preferred embodiment of the present invention uses commercially available Watermark Professional Edition image viewer. While in the image viewer, Figure 5, the document display size may be changed to suit the user's needs. Furthermore, among other things, the user can print the document, annotate the document using text or audio annotations and highlight significant portions of the document.

Referring now to page 53 of the Appendix and Figure 6, the system is capable of automatically determining the location of a user-requested document in a multi-volume CD-ROM document image database. This feature is facilitated by the system's ability automatically keep track of the location of all documents as they are scanned into the system, even if more than one CD-ROM is required to store the scanned document images. This functionality is useful in circumstances where the user's computer system has a single CD-ROM drive. The functionality is particularly helpful on laptop computers, which customarily have a single CD-ROM drive.

The preferred embodiment maintains two different versions of each document in each case database: (1) the scanned image and (2) the full-text OCR version. The scanned image version is displayed in thumbnail mode 4-300 and using the image viewer program. The scanned image version is the more complete and accurate version of a document because it is essentially an identical image of the document as it was scanned into the system. While the scanned image is ideal for viewing an identical copy of the original document, the scanned image lacks the capability to be searched for text. The physical limitation of the scanned image version necessitates a full-text version of the document. The full-text version is

obtained though the use of optical character recognition (OCR) software to convert the scanned image into a text-only file (see discussion below on the OCR process).

Referring now to pages 26 to 36 of the Appendix, the Briefing Tool, Figure 7, of the preferred embodiment enables the user to view the scanned image of the document thumbnail 4-300 by clicking on the Brief button 4-420 on the MIS, Figure 4. The Briefing Tool, Figure 7, differs from the image viewer, Figure 5, in that the Briefing Tool displays the document image at all time while it is open. It is desirable to have the functionality of an image viewer that remains on top of all other windows at all times because it permits the user to have both the MIS, Figure 4, and Briefing Tool, Figure 7, up on the monitor at the same time to facilitate efficient briefing of the document in the MIS. This functionality facilitates multiple users briefing the same case database at the same time without having the need to have actual physical document copies accessible to each briefer. Additionally, the Briefing Tool reduces the likelihood of lost physical document copies. As evident from the programming source code on page 26 of the Appendix, the Briefing Tool, Figure 7, of the preferred embodiment is written in TMS/Sequia OCX technology.

Referring now to pages 13 and 69 to 83 of the Appendix, the Transcript Viewer, Figure 8, of the preferred embodiment is an ASCII transcript viewer. It displays an entire page of a deposition proceeding at a time. The Transcript Viewer is initiated by clicking on the Transcr button 4-440 on the MIS, Figure 4. The Transcript Viewer has the capability to automatically recognize various transcript types, such as different transcript types received from court reporters, and to automatically perform all necessary formatting and loading into the system. This feature is particularly desirable because state of the art systems lack this feature and thereby require significant labor to format transcripts prior to use on other state of the art document management systems. The Transcript Viewer has a Find Word 8-100 feature, which enables the user to search transcripts for particular text strings. Another desirable feature of the Transcript Viewer in this preferred embodiment is the ability to use it in conjunction with any word processing software, such as Microsoft Word or Corel's WordPerfect. The combination use enables the user to highlight any selected portion of a transcript, then click on the Copy button 8-200 in the Transcript Viewer. The copied information can then be pasted into the word processor. Significantly, the Copy 8-200 function accomplishes much more than the average cut and paste routine. Here, the Copy 8-200 function provides additional valuable information relating to the copied transcript text. Specifically, the Copy 8-200 function automatically generates document reference including

information such as the page and line number of the copied text and the name of the transcript.

This automatic functionality facilitates faster deposition summaries and easier incorporation of deposition quotes in litigation pleadings. Furthermore, the Transcript Viewer allows condensed printing of transcripts – up to four pages of transcripts on a single physical printed page.

Referring now to pages 14 to 15 of the Appendix, the ISYS Query screen, Figure 9, of the preferred embodiment enables the user to perform full-text searches on the OCR version of the documents in the case database. The ISYS Query screen, Figure 9, is initiated by clicking on the FullText button 4-470 on the MIS, Figure 4. The preferred embodiment of the present invention uses a commercially available search engine called ISYS, produced by Odyssey Development Corporation, for performing the full-text searches. The third party ISYS Search screen, Figure 10, is initiated by clicking on the Q button 9-100. The user enters queries in the query field 10-100 using search connectors 10-200 as needed. The user may choose to use the Word Wheel icon 10-300 to search for the number of occurrences of any given specific word.

The Word Wheel Search screen, Figure 11, is initiated when the user clicks on the Word Wheel icon 10-300 on the ISYS Search screen, Figure 10. The user enters the specific word to search for in the query field 11-100 in Figure 11. The user must select one of the search methods 11-200. The self-explanatory choices are “Starts with” and “Sounds like.” The result of the single-word Word Wheel search is displayed in the result list-box 11-300.

Referring now to page 12 of the Appendix, the Add button 4-450 and the Delete button 4-460 on the MIS, Figure 4, of the preferred embodiment enable the user to perform standard add and delete processing of case database records.

Referring now to pages 13 and 20 to 20 of the Appendix and pages 42 to 52 of the Appendix, the Reports button 4-480 on the MIS, Figure 4, enables the user to print reports as defined by the user’s System Settings, Figure 12, Reports button 12-300 and Rpt Names button 12-400. Report Screen, Figure 15, enables the user to name reports. Report Screen, Figure 14, enables the user to run reports.

Referring now to page 13 of the Appendix, the Print Scr button 4-490 on the MIS, Figure 4, of the preferred embodiment provides the functionality to produce an image of an index card that looks exactly like the MIS, Figure 4.

Referring now to page 37 of the Appendix, the Duplicates button 12-500 on the System Settings screen, Figure 12, performs a check for duplicate records in the case database. The result of the duplicates check is displayed on the Duplicates Screen, Figure 16.

The Duplicates Screen is a grid type screen that includes an entry for every document in the database. The duplicates checking routine performs approximately 14 separate checks on document numbers. Duplicate records are grouped together based on document numbers. Duplicate records are highlighted and deleted by pressing the delete key. The Duplicates Screen has the added functionality of providing the database administrator the capability to perform mass maintenance functions on all records in the database. For example, the administrator can globally make changes to all data in a case database. Various reports can also be produced using the Duplicates Screen. The reporting capabilities found here, i.e., Figure 16, are separate and distinct from other reporting features of the system. All appearance changes on this screen, Figure 16, such as hiding various columns for printing purposes, are temporary, while all data content changes, such as global find and replace, are permanent.

Referring now to page 37 of the Appendix, the Exhibit List button 12-600 on the System Settings screen, Figure 12, displays the Exhibit List screen, Figure 17. The Exhibit List screen, Figure 17, allows the user to modify parts of the data for use in an automatic exhibit list which can be printed from the Report Screens, Figures 14 and 15.

Referring now to pages 14 to 15 of the Appendix, the preferred embodiment of the present invention provides the user with the option of selecting the user's choice of full-text search engine Figure 9. The system of the preferred embodiment is designed to automatically detect what particular component is installed on the user's computer system 1-100 and to automatically develop necessary links to enable use of the installed components as the user's full-text search engine.

Referring now to pages 1 to 2 of the Appendix, the Create Case module permits the user to add a new case database. A case database must be added to the computer system 1-100 before any of the database actions listed in Figure 3 can be performed on the documents and the associated information which comprise a case database. A series of dialogue boxes step the user through the process of creating a new database. The procedure for adding a new case database is initiated by clicking on the Create Case button 3-200 on the PC START screen, Figure 3.

Referring now to page 2 of the Appendix, the Delete Case module permits the user to delete a case database from the computer system 1-100. In order to delete a case, the case must exist in the Current Cases list-box 3-900 and must be selected by the user. The delete case function is password protected to prevent unauthorized deletion of case databases. A

series of dialogue boxes step the user through the process of deleting a database. The procedure for deleting a case database is initiated by clicking on the Delete Case button 3-300 on the PC START screen, Figure 3.

Referring now to pages 3 to 4 of the Appendix, the Repair Case module permits the user to perform various repair functions on a case database residing on the computer system 1-100. In order to repair a case, the case must exist in the Current Cases list-box 3-900 and must be selected by the user. The Repair Case module corrects technical problems with the case database such as damaged or defective files. It is critical to repair a case when a damaged or defective file prevents the system from functioning as intended. A series of dialogue boxes step the user through the process of repairing a database. The procedure for repairing a case database is initiated by clicking on the Repair Case button 3-400 on the PC START screen, Figure 3.

Referring now to page 1 of the Appendix, the Compress Case module permits the user to perform various maintenance functions on a case database residing on the computer system 1-100. In order to compress a case, the case must exist in the Current Cases list-box 3-900 and must be selected by the user. The Compress Case module performs tasks such as reorganization and defragmentation of the selected case database. During the normal course of use, case databases are added and deleted as needed. However, the system does not physically delete a case database and its associated files until the case database is compressed. Thus, it is desirable to compress a case to free up storage space occupied logically deleted files. Compressing a case improves overall performance of the system and allows faster processing of information contained in the case database. A series of dialogue boxes step the user through the process of compressing a database. The procedure for compressing a case database is initiated by clicking on the Compress Case button 3-500 on the PC START screen, Figure 3.

Referring now to pages 8 and 9 of the Appendix, the Make Labels module allows the user to print litigation label numbers based on either the Bates numbers stamped document production during litigation or case database system specific Document Number. Figure 18 demonstrates the preferred embodiment's form for Bates number based label maker and Figure 19 demonstrates the preferred embodiment's form for Document number based label maker.

Referring now to pages 5 and 84 to 87 of the Appendix, the Print Docs module enables the user to perform high-speed document production. The module contains functionality which acts as a batch print utility for delayed or scheduled printing of scanned image files on

the high-speed laser printer 1-600. The batch print capability of the Print Docs module is very useful as a cost-effective method for automated and scheduled high-speed document production. Referring now to Figure 20, the Tempest Image Printer screen enables the user to select one or more files to be printed. By simply clicking on check boxes, the system is capable of batching all files for deferred printing and production of selected documents on high-speed network printers. This feature eliminates costs associated with manual production of documents by clerks – a process that requires clerks to manually locate and copy selected documents for production. Current state of the art technology does not provide batch print capability in document management systems. Further performance enhancement may be realized by installing additional memory chips into the high-speed laser printer 1-600. The preferred embodiment of the present invention uses the commercially available Hewlett Packard 5Si model. However, the preferred embodiment uses a 5Si model with its standard memory upgraded to 32 megabytes. The upgraded 5Si reduces the processing load on the computer system's 1-100 resources and effectively improves overall system performance. The present invention envisions a system whereby the batch print functionality may be easily expanded by one skilled in the art to enable multiple printers to simultaneously share the burden of printing high-volume batched documents. The accelerated print management produces significant time and labor savings.

Referring now to pages 54 to 60 of the Appendix, Luke's Watermark Scan Utility module is the mechanism of the preferred embodiment of the present invention by which all documents that belong to a case database are scanned into the computer system 1-100. The documents are scanned into the computer system 1-100 using the attached high-speed scanner 1-200. Luke's Watermark Scan Utility screen, Figure 21, is displayed when the scanning utility module is initiated. The scanning utility of the preferred embodiment will work with any industry standard, i.e., TWAIN compliant, scanner. However, the utility can be modified to work with specific high-speed scanners. For example, the scan utility of the preferred embodiment includes special driver software for the preferred Fujitsu high-speed scanner. Scanner setup is accomplished by means of clicking on the Setup button 21-100 in Figure 21. The scan utility automatically links the scanned image into the case database and gives it a document number and bates label number. The automatic linking and setup of the scanned images into the case database is highly desirable because it saves significant manual effort that would otherwise be required. The Scan button 21-200 initiates scanning of as many documents as are in the scanner's 1-200 sheet feeder 1-210. The Single button 21-300

initiates scanning of only a single page of a document. The Scan90 button 21-400 makes a 90-degree orientation adjustment to a document as it is scanned into the system. This eliminates the need for the user to adjust the scanned image when viewing it. The Save button 21-500 permanently stores scanner settings. The scan utility keeps a running tab of all scanned images that have not yet been processed by the OCR routine, i.e., conversion to full-text version of the scanned image. This is desirable because the OCR list generated by the scan utility is used in the OCR process without having to manually determine which scanned images need to be OCRed.

Referring now to pages 94 to 98 of the Appendix, the Document Separator module is designed to facilitate efficient scanning of large volumes of documents in a continuous stream. Documents are typically scanned one document at a time in order to signal to the system the end of one document and the start of another. Scanning one document at a time is a laborious and time-consuming manual procedure. It is desirable to perform continuous scanning of documents because it eliminates the need to manually signal the end of each document (containing one or more physical pages) and the start of the next document. In the preferred embodiment, continuous scanning of documents is achieved by placing a physical document separator between each of the documents before scanning. In the preferred embodiment the physical document separator, Figure 22, is a physical sheet of paper that contains a predetermined unique image pattern. All documents are then continuously scanned and saved as one multi-page electronic file, such as a TIFF file. Figure 23 shows an example of a continuous stream of documents separated by the designated uniquely patterned document separator. The document separator module examines and processes each multi-page TIFF file to produce individual documents and saves each such document as a separate electronic file. The logic of Document Separator, as used in the preferred embodiment, is described in the flowchart in Figure 2. Specifically, the process begins by loading and displaying each scanned image on the computer screen. The width and height of the scanned sheet is determined and the sheet is divided into sixty-four (64) sections, Figure 24. The 64 sections are further divided into four (4) quadrants, Figure 25. Figure 26 demonstrates overlay of the 64 sections and 4 quadrants on a page of a document. Figure 27 demonstrates overlay of the 64 sections and 4 quadrants on a page that is the designated document separator with the predetermined unique graphic pattern. Thereafter, the software module takes one thousand (1000) color samples or pixel values from each quadrant. Each color sample is examined and compared against the predetermined unique graphic pattern of the designated document separator to determine whether the scanned page is

the designated document separator. If the scanned page does not correspond identically/substantially to that of the predetermined unique image, (the Document Separator template), the scanned page is marked as part of an ongoing document and the process is repeated again. However, if the page is the designated document separator, then the end of the current document is indicated and all scanned pages prior to the document separator are saved as a single document in a separate electronic file. Figure 28 displays the end result of the foregoing process for the example multi-page TIFF file shown in Figure 23. At the completion of the document separator routine, four documents are extracted in Figure 28 from the single multi-page TIFF file in Figure 23. This process is repeated until all documents have been separated in a similar manner. The utility of the present invention lies in part in time savings realized through continuous scanning of large volumes of plurality of documents using a high-speed scanner.

Referring now to pages 61 to 66 of the Appendix, the Watermark Exhibit Scan Utility module is an automatic trial exhibit maker. It allows exhibit descriptions to be added as the documents are being scanned.

Referring now to pages 67 to 68 of the Appendix, Luke's Automated OCR'ing Utility module enables the OCR software, such as Omni Page Pro, to run in a batch file mode at various scheduled times. It corrects errors and loads the assigned documents to the OCR program.

Although the method and apparatus of the present invention has been described in connection with the preferred embodiment, it is not intended to be limited to the specific form set forth herein, but on the contrary, it is intended to cover such alternatives, modifications, and equivalents, as can be reasonably included within the spirit and scope of the invention as defined by the appended claims.

PROGRAM CODE

SEE APPENDIX 1, PAGES 1 – 98

Form1 - 1

```

' PC START
' Copyright (C) 1995 - 1997, Luke A. Spence & Michael L. Saltsman
' Last Modified on 05/9/97
' All rights reserved. No portion of this program code may be altered,
' reproduced, used without written permission of the authors
' Compile with 16 bit processor "GetModuleUsage" API does not work with
' WIN32 or Windows NT

Option Explicit
Dim Drive Path As String, CaseFileName As String
Private Declare Function GetModuleUsage% Lib "Kernel" (ByVal hModule%)
Private Sub cmdCompress Click()
Dim Retval As Integer, CaseToCompress As String, Compressed As String
If Security() = 0 Then Exit Sub
Retval = MsgBox("Do you want this case is to be compressed?", 275, "Case Com
press")
If Retval = 6 Then
CaseToCompress = Drive Path & List1.Text & ".mdb"
Compressed = Drive Path & "PCTemp.mdb"
CompactDatabase CaseToCompress, Compressed
Kill CaseToCompress
Name Compressed As Drive Path & List1.Text & ".mdb"
MsgBox "The case is compressed.", 0, "Compressed Case"
Else
Exit Sub
End If
File1.Refresh
UpdateList
UpdateButtons
End Sub

Private Sub cmdCreateCase Click()
If Security() = 0 Then Exit Sub
Dim Y As Integer, Z As Integer, NewCaseName As String, OriginalFile As String
Dim Ansr, CurDrv, Msq, TmpPath, HomeDir, ChrName As String, Characters As String
Dim NewFile As String, TestFile As String
NewCaseName = InputBox$("Please type your case name. It can be up to eight
letters long, you may use any letter(s), number(s), or the dash '-' & /or the un
derscore '_' symbols in your description.", "Case Name", "")
If NewCaseName = "" Then Exit Sub
If UCase(NewCaseName) = "DOCONTR" Then
MsgBox "Please use another filename.", 0, "Reserved Case Name."
Exit Sub
End If
NewCaseName = Left$(NewCaseName, 8)
Z = Len(NewCaseName)
For Y = 1 To Z
ChrName = Mid$(NewCaseName, Y, 1)
Select Case UCase(ChrName)
Case "A", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N"
"O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z"
ChrName = ChrName
Case "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "-", "_",
ChrName = ChrName
Case Else
ChrName = ""
End Select
Characters = Characters + ChrName
Next Y
NewCaseName = Characters
OriginalFile = Drive Path & "docontr.mdb"
NewFile = Drive Path & NewCaseName & ".mdb"
TestFile = Dir(NewFile)
If TestFile = "" Then
FileCopy OriginalFile, NewFile
Else
MsgBox "That case already exists. "
File1.Refresh
UpdateList

```

Form1 - 2

```

        UpdateButtons
    Exit Sub
End If

On Error Resume Next ' Set up error handler.
CurDrv = Left(CurDir, 2) ' Get current drive letter.
HomeDir = CurDir
TmpPath = UCase(HomeDir & "\" & NewCaseName) ' Make path specification.
MkDir TmpPath ' Make new directory.
TmpPath = UCase(HomeDir & "\" & NewCaseName & "\IMAGES")
MkDir TmpPath ' Make new directory.
TmpPath = UCase(HomeDir & "\" & NewCaseName & "\DOCS")
MkDir TmpPath ' Make new directory.
TmpPath = UCase(HomeDir & "\" & NewCaseName & "\DEPOS")
MkDir TmpPath ' Make new directory.
File1.Refresh
UpdateList
UpdateButtons
End Sub

Private Sub cmdDeleteCase_Click()
Dim CurDrv, Msq, TmpPath, FileKill, HomeDir, caseToDelete
Dim Retval As Integer, ToDelete As String
If Security() = 0 Then Exit Sub
Retval = MsgBox("Are you positive that this case is to be deleted?", 275, "Case Deletion")
If Retval = 6 Then
    ToDelete = Drive Path & List1.Text & ".mdb"
    If InStr(List1.Text, "DOCONTR") Then Exit Sub
    Kill ToDelete

    On Error Resume Next ' Set up error handler.
    CurDrv = Left(CurDir, 2) ' Get current drive letter.
    HomeDir = CurDir
    FileKill = "*.*)"
    caseToDelete = Drive Path & List1.Text
    TmpPath = UCase(HomeDir & "\" & caseToDelete & "\IMAGES")
    ChDir TmpPath
    Kill FileKill
    ChDir HomeDir
    Rmdir TmpPath
    TmpPath = UCase(HomeDir & "\" & caseToDelete & "\DOCS")
    ChDir TmpPath
    Kill FileKill
    ChDir HomeDir
    Rmdir TmpPath
    TmpPath = UCase(HomeDir & "\" & caseToDelete & "\DEPOS")
    ChDir TmpPath
    Kill FileKill
    ChDir HomeDir
    Rmdir TmpPath
    TmpPath = UCase(HomeDir & "\" & caseToDelete)
    Rmdir TmpPath
Else
    Exit Sub
End If
MsgBox "Per your request, the case is deleted.", 0, "Deleting Case"
File1.Refresh
UpdateList
UpdateButtons
End Sub

Private Sub cmdExit_Click()
End
End Sub

Private Sub cmdLoadCase_Click()
Dim L As Integer, Z As Integer, Database As String, LoadAccess As String
On Error Resume Next
Database = List1.Text & ".mdb"
'a hard map was added to make this work on 97 laptops
LoadAccess = "Chaser.exe " & "C:\PCHASER\" & Database

```

Form1 - 3

```

    L = Shell(LoadAccess, 1)
    Form1.WindowState = 1 'Minimized
    While GetModuleUsage(L) > 0
        Z = DoEvents()
    Wend
    Form1.WindowState = 0
End Sub
Private Sub cmdMinimize Click()
    Form1.WindowState = 1
End Sub
Private Sub CmdMk1b1 Click()
    Dim X As Integer, Z As Integer
    On Error Resume Next
    X = Shell("LABEL.EXE", 1)
    Form1.WindowState = 1 'Minimized
    While GetModuleUsage(X) > 0
        Z% = DoEvents()
    Wend
    Form1.WindowState = 0
End Sub
Private Sub cmdRename Click()
    Dim Z As Integer, Y As Integer, NewCaseName As String, ChrName As String, Characters As String
    Dim OriginalFile As String, NewFile As String, TestFile As String
    If Security() = 0 Then Exit Sub
    Dim dirToChange, dirToChangeTo
    NewCaseName = InputBox("Please type your case name. It can be up to eight letters long, you may use any letter(s), number(s), or the dash '-' & /or the underscore '_' symbols in your description.", "Case Name", "")
    If NewCaseName = "" Then Exit Sub
    If UCASE(NewCaseName) = "DOCONTR" Then
        MsgBox "Please use another filename.", 0, "Reserved Case Name."
        Exit Sub
    End If
    NewCaseName = Left$(NewCaseName, 8)
    Z = Len(NewCaseName)
    For Y = 1 To Z
        ChrName = Mid$(NewCaseName, Y, 1)
        Select Case UCASE(ChrName)
            Case "A", "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z"
                ChrName = ChrName
            Case "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", "-", "_"
                ChrName = ChrName
            Case Else
                ChrName = ""
        End Select
        Characters = Characters + ChrName
    Next Y
    NewCaseName = Characters
    OriginalFile = Drive Path & List1.Text & ".mdb"
    NewFile = Drive Path & NewCaseName & ".mdb"
    dirToChange = CurDir & "\" & List1.Text & "\"
    dirToChangeTo = CurDir & "\" & NewCaseName & "\"
    TestFile = Dir(NewFile)
    If TestFile = "" Then
        Name OriginalFile As NewFile
        MsgBox dirToChange
        MsgBox dirToChangeTo
        Name dirToChange As dirToChangeTo
    Else
        MsgBox "That case already exists."
        Exit Sub
    End If
    File1.Refresh
    UpdateList
    UpdateButtons
End Sub
Private Sub cmdRepair_Click()

```

Form1 - 4

```

Dim Retval As Integer, CaseToRepair As String
If Security() = 0 Then Exit Sub
Retval = MsgBox("Do you want this case is to be repaired?", 275, "Case Repair")
If Retval = 6 Then
    CaseToRepair = Drive Path & List1.Text & ".mdb"
    RepairDatabase CaseToRepair
    MsgBox "The case is repaired.", 0, "Repaired Case"
Else
    Exit Sub
End If
File1.Refresh
UpdateList
UpdateButtons
End Sub
Private Sub Command1_Click()
    End
End Sub
Private Sub Dir1_Change()
    File1.Path = Dir1.Path
End Sub
Private Sub Drive1_Change()
    On Error Resume Next
    Dir1.Path = Drive1.Drive
End Sub
Private Sub Form_Load()
    On Error Resume Next
    ' center form
    Me.Left = (Screen.Width - Me.Width) / 2
    Me.Top = (Screen.Height - Me.Height) / 2
    pctLogo.Picture = LoadPicture("backgrnd.bmp")
    UpdateList
    If Dir(Drive Path & "DOCONTR.MDB") = "" Then cmdCreateCase.Enabled = False
    cmdDeleteCase.Enabled = False
    cmdLoadCase.Enabled = False
    cmdRename.Enabled = False
    cmdRepair.Enabled = False
    cmdCompress.Enabled = False
    cmdSysAdmin.Enabled = False
End Sub
Private Sub List1_Click()
    If List1.Text = "DOCONTR" Then
        cmdDeleteCase.Enabled = False
        cmdRename.Enabled = False
    Else
        cmdDeleteCase.Enabled = True
        cmdRename.Enabled = True
        cmdRepair.Enabled = True
        cmdCompress.Enabled = True
    End If
    cmdSysAdmin.Enabled = True
    cmdLoadCase.Enabled = True
End Sub
Private Sub List1_DblClick()
    cmdLoadCase.Value = True
    Rem cmdSysAdmin.Value = True
End Sub
Private Function Security()
    Dim Ans
    Security = 0
    Ans = InputBox("Enter your Paper Chaser Administration Password", "Security")
    If Ans = "Rufus" Or Ans = "rufus" Then
        Security = 1
    Else
        MsgBox "Access Prohibited. Incorrect Password", 16, "Security Check"
    End If
End Function
Private Sub UpdateButtons()
    cmdLoadCase.Enabled = False

```

Form1 - 5

```

    cmdDeleteCase.Enabled = False
    cmdRename.Enabled = False
    cmdRepair.Enabled = False
    cmdCompress.Enabled = False
    cmdSysAdmin.Enabled = False
End Sub
Private Sub UpdateList()
Dim X As Integer, I As Integer, CaseName As String, Test As String
List1.Clear
For I = 0 To File1.ListCount - 1
    CaseFileName = File1.List(I)
    For X = 1 To 8
        Test = Mid$(CaseFileName, X, 1)
        If Test = "." Then Exit For
        CaseName = CaseName + UCase(Test)
    Next X
    List1.AddItem CaseName
    CaseName = ""
Next I
End Sub
Private Sub CmdSysAdmin_Click()
Dim X As Integer, Z As Integer, LoadAccess As String, Database As String
On Error Resume Next
Database = List1.Text & ".mdb"
LoadAccess = "msarn200.exe " & Database & " /ini pchaser.ini"
X = Shell(LoadAccess, 1)
Form1.WindowState = 1 'Minimized
While GetModuleUsage(X) > 0
    Z% = DoEvents()
Wend
Form1.WindowState = 0
End Sub
Private Sub PrintDocs_Click()
Dim X As Integer
On Error Resume Next
X = Shell("TIFFPRINT.EXE", 1)
Rem Form1.WindowState = 1 'Minimized
Rem While GetModuleUsage(X) > 0
Rem     Z = DoEvents()
Rem Wend
Rem Form1.WindowState = 0
End Sub

```

```
frmStartUP - 1

Private Sub Form Click()
    Timer1.Enabled = False
    Load Form1
    Form1.Show
    Unload frmStartUP
End Sub

Private Sub Form Load()
    On Error Resume Next
    If App.PrevInstance Then
        Beep
        End
    End If
    frmStartUP.Show
    Imq1.Picture = LoadPicture("start-up.bmp")
    'Imq1.Left = (Screen.Width - Imq1.Width) / 2
    'Imq1.Top = (Screen.Height - Imq1.Height) / 2
    Me.Left = (Screen.Width - Me.Width) / 2
    Me.Top = (Screen.Height - Me.Height) / 2
End Sub

Private Sub Timer1 Timer()
    Timer1.Enabled = False
    Load Form1
    Form1.Show
    Unload frmStartUP
End Sub
```

Form1 - 1

```
' Label Maker Copyright (C) 1995, 1996 Luke A. Spence
' Last modified on 01/02/96
' All rights reserved. No portion of this cprogram code may be altered,
' reproduced or used without written permission of the authors.
Option Explicit
DefInt A-Z

Dim paddedSuffix$
Dim paddedPrefix$
Dim prefixLength%
Dim suffixLength%
Dim startNumberLength%
Dim adjusted%
Dim page%
Dim pages%
Dim lineNumber%
Dim column%
Dim labelsPrinted%
Dim skip%
Dim skipLine%
Dim startLineNumber%
Dim startColumnNumber%
Dim bateStampNumber&

Private Sub cmdExit_Click()
    End
End Sub

Private Sub cmdHelp_Click()
    frmHelp.Left = (Screen.Width - frmHelp.Width) / 2
    frmHelp.Top = (Screen.Height - frmHelp.Height) / 2
    Load frmHelp
    frmHelp.Show 1
End Sub

Private Sub cmdPrint_Click()
    PrintLabels
End Sub

Private Sub DetermineCenter()
    If Len(txtPrefix) = 0 Then
        paddedPrefix = ""
    Else
        paddedPrefix = txtPrefix & " "
    End If
    prefixLength = Len(paddedPrefix)

    If Len(txtSuffix) = 0 Then
        paddedSuffix = ""
    Else
        paddedSuffix = " " & txtSuffix
    End If
    suffixLength = Len(paddedSuffix)

    If optNoSpacing = True Then
        startNumberLength = Len(txtStartNumber)
    Else
        startNumberLength = 7
    End If

    ' the following determines the center
    adjusted = 8 - ((prefixLength + startNumberLength + suffixLength) \ 2)
End Sub

Private Sub Form_Load()
    cmdPrint.Enabled = False
```

```

Form1 - 2

End Sub

Private Sub optNumOfLabels_Click()
    txtNumRequired = ""
End Sub

Private Sub optNumOfPages_Click()
    txtNumRequired = ""
End Sub

Private Sub optPrefixNO_Click(Value As Integer)
    UpdateLength
End Sub

Private Sub optPrefixYES_Click(Value As Integer)
    UpdateLength
End Sub

Private Sub optsuffixNO_Click(Value As Integer)
    UpdateLength
End Sub

Private Sub optsuffixYES_Click(Value As Integer)
    UpdateLength
End Sub

Private Sub PrintLabels()
    pnlDisplay.Caption = "Printing..."
    On Error Resume Next
    If txtStartAtColumn = "" Then txtStartAtColumn = 1
    If txtStartAtRow = "" Then txtStartAtRow = 1
    startLineNumber = txtStartAtRow
    startColumnNumber = txtStartAtColumn

    DetermineCenter

    Printer.FontName = "Courier"
    Printer.FontSize = 12
    Printer.FontBold = True

    labelsPrinted = 0
    bateStampNumber& = txtStartNumber
    pages = lblNumOfPages + 1

    For page = 1 To pages
        For lineNumber = startLineNumber To 20
            If startLineNumber > 1 Then
                For skipLine = 1 To startLineNumber - 1
                    Printer.Print "": Printer.Print "": Printer.Print ""
                Next skipLine
            End If
            startLineNumber = 1
            Printer.Print "": Printer.Print "": Printer.Print ""
            For column = startColumnNumber To 4
                startColumnNumber = 1
                If Int(labelsPrinted) >= Int(lblNumOfLabels) Then GoTo Done
                If column = 1 Then skip = adjusted + 2
                If column = 2 Then skip = adjusted + 23
                If column = 3 Then skip = adjusted + 43
                If column = 4 Then skip = adjusted + 63
                Printer.Print Tab(skip);
                Printer.Print paddedPrefix;
                If optZeros = True Then
                    Printer.Print Format$(bateStampNumber&, "0000000");
                ElseIf optSpaces = True Then
                    Printer.Print Format$(bateStampNumber&, "#####");
                Else
                    Printer.Print Format$(bateStampNumber&, "#####");
                End If
            Next column
        Next lineNumber
    Next page
Done:

```


Form1 - 3

```

Printer.Print paddedSuffix;
If bateStampNumber& = 9999999 Then
    column = 4
    lineNumber = 20
    page = pages
End If
bateStampNumber& = bateStampNumber& + 1
labelsPrinted = labelsPrinted + 1
skip = skip + 20      ' adds 20 spaces to the 'Tab'
Next column
Next lineNumber
Printer.NewPage
Next page
Printer.EndDoc
Exit Sub

Done:
Printer.NewPage
Printer.EndDoc
pnlDisplay.Caption = "Print job sent to the printer."
Exit Sub

End Sub

Private Sub txtNumRequired_Change()
On Error Resume Next
If optNumOfPages = True Then
    lblNumOfLabels = txtNumRequired * 80
    lblNumOfPages = txtNumRequired
End If
If optNumOfLabels = True Then
    lblNumOfLabels = txtNumRequired
    lblNumOfPages = Format$((txtNumRequired / 80), "####.##")
End If
If txtNumRequired = "" Then
    lblNumOfLabels = ""
    lblNumOfPages = ""
End If
If txtStartNumber <> "" And txtNumRequired <> "" Then
    cmdPrint.Enabled = True
Else
    cmdPrint.Enabled = False
End If
End Sub

Private Sub txtStartAtColumn_Change()
On Error Resume Next
If txtStartAtColumn.Text < 1 Then txtStartAtColumn.Text = ""
If txtStartAtColumn.Text > 4 Then txtStartAtColumn.Text = ""
End Sub

Private Sub txtStartAtRow_Change()
On Error Resume Next
If txtStartAtRow.Text < 1 Then txtStartAtRow.Text = ""
If txtStartAtRow.Text > 20 Then txtStartAtRow.Text = ""
End Sub

Private Sub txtStartNumber_Change()
If txtStartNumber <> "" And txtNumRequired <> "" Then
    cmdPrint.Enabled = True
Else
    cmdPrint.Enabled = False
End If
End Sub

Private Sub txtStartNumber_KeyPress(KeyAscii As Integer)
Select Case KeyAscii
Case 48 To 57
    ' do nothing, valid entry

```

```

Form1 - 4

Case 8
    ' backspace character
Case Else
    KeyAscii = 0 '48
End Select
End Sub

Private Sub UpdateLength()
    If optPrefixYES = True Then
        If optSuffixYes = True Then
            ' SUFFIX & PREFIX
            'PREFIX
            txtPrefix.MaxLength = 3
            txtPrefix.Left = 480
            txtPrefix.Width = 615
            txtPrefix.Visible = True
            lblPrefix.Left = 480
            lblPrefix.Visible = True
            'SUFFIX
            txtSuffix.MaxLength = 3
            txtSuffix.Left = 3120
            txtSuffix.Width = 615
            txtSuffix.Visible = True
            lblSuffix.Left = 3120
            lblSuffix.Visible = True
            'NUMBER
            txtStartNumber.Left = 1440
            lblStartNumber.Left = 1440
        Else
            'SUFFIX
            txtSuffix.Visible = False
            lblSuffix.Visible = False
            txtSuffix = ""
            'PREFIX
            txtPrefix.MaxLength = 7
            txtPrefix.Left = 600
            txtPrefix.Width = 1300
            txtPrefix.Visible = True
            lblPrefix.Left = 600
            lblPrefix.Visible = True
            'NUMBER
            txtStartNumber.Left = 2300
            lblStartNumber.Left = 2300
        End If
    ElseIf optSuffixYes Then
        ' SUFFIX
        txtPrefix.Visible = False
        lblPrefix.Visible = False
        txtPrefix = ""
        'SUFFIX
        txtSuffix.MaxLength = 7
        txtSuffix.Left = 2300
        txtSuffix.Width = 1300
        txtSuffix.Visible = True
        lblSuffix.Left = 2300
        lblSuffix.Visible = True
        'NUMBER
        txtStartNumber.Left = 600
        lblStartNumber.Left = 600
    Else
        ' NONE
        txtPrefix.Visible = False
        lblPrefix.Visible = False
        txtPrefix = ""
        txtSuffix.Visible = False
        lblSuffix.Visible = False
        txtSuffix = ""
        txtStartNumber.Left = 1400
        lblStartNumber.Left = 1400
    End If
End Sub

```

```
frmStartUp - 1
' Copyright (C) 1995,1996 Luke Spence
' Last modified on 01/02/96

Private Sub Form Click()
    Timer1.Enabled = False
    Load Form1
    Form1.Show
    Unload frmStartUp
End Sub

Private Sub Form Load()
    frmStartUp.Left = (Screen.Width - frmStartUp.Width) / 2
    frmStartUp.Top = (Screen.Height - frmStartUp.Height) / 2
    frmStartUp.Show
    Form1.Left = (Screen.Width - Form1.Width) / 2
    Form1.Top = (Screen.Height - Form1.Height) / 2
    Load Form1
End Sub

Private Sub Timer1_Timer()
    Load Form1
    Form1.Show
    Unload frmStartUp
End Sub

frmHelp - 1
' Copyright (C) 1995,1996 Luke Spence
' Last modified on 01/02/96

Option Explicit

Private Sub cmdReturn_Click()
    Unload frmHelp
End Sub
```

Form1 - 1

```

'Paper Chaser
'Copyright (C) 1995 - 1997, Michael L. Saltsman
'All rights reserved. No portion of this program code may be altered, used or re
produced
'without written permission of the author.
Option Explicit
' declare API functions
Private Declare Function GetDriveType Lib "kernel32" Alias "GetDriveTypeA" (ByVa
l nDrive As String) As Long
' declare API constants
Const DRIVE_CDROM = 5
Const DRIVE_FIXED = 3
Const DRIVE_RAMDISK = 6
Const DRIVE_REMOTE = 4
Const DRIVE_REMOVABLE = 2

Public DriveType As String
Public CurrentDisk As Variant
Public DiskNum As Variant
Dim CDROM As String
Public MyCriteria As String
Dim ImagePath As String
Public NoC As Variant
Dim StrBuffer As String * 250
Private Sub CmdAdd_Click()
Data1.Recordset.AddNew
Data1.Recordset.Update
Data1.Recordset.MoveLast
Text34.Text = "Q.TIF"
End Sub
Private Sub CmdBrief_Click()
Dim Temp As String, R As Double, Test As String
Label34.DataField = "ImagePath"
Temp = Label34.Caption & Text34.Text
Test = Label34.Caption & Text34.Text
If Dir(Test) <> "" Then
R = Shell("DOCIV.EXE " & Temp, 1)
Exit Sub
Else
MsgBox "Image not available. Wrong disk. Use Go To to re-enter document num
ber to find disk number."
End If
End Sub

Private Sub CmdDelete_Click()
Dim Msg As String, Title As String, Style As Variant, Response As Variant, MyStr
ing As String
Msg = "Delete this entry?" ' Define message.
Style = vbYesNo + vbQuestion + vbDefaultButton2 ' Define buttons.
Title = "Delete Entry Confirmation" ' Define title.
Response = MsgBox(Msg, Style, Title)
If Response = vbYes Then ' User chose Yes.
MyString = "Yes" ' Perform some action.
Data1.Recordset.Delete
Data1.Refresh
Data2.Refresh
Exit Sub
Else ' User chose No.
MyString = "No" ' Perform some action.
Beep
Exit Sub
End If
End Sub
Private Sub CmdEnd_Click()
End
End Sub
Private Sub CmdGoto_Click()
Dim MyCriteria As String
FrmSearch.Label11.Caption = "Enter the Document # to find:"

```

Form1 - 2

```

qs FileName$ = "[Doc Number]"
Load GotoDoc
GotoDoc.Show
End Sub
Private Sub CmdPrintScreen_Click()
Dim Msq
On Error GoTo ErrorHandler
Form1.PrintForm
Printer.EndDoc
Exit Sub
ErrorHandler:
    Msq = "The form can't be printed."
    MsgBox Msq ' Display message.
    Resume Next
End Sub
Private Sub CmdRpts Click()
Dim LoadAccess As String, X As Variant
Me.Left = (Screen.Width - Me.Width) / 2
Me.Top = (Screen.Height - Me.Height) / 2
Rem Load FrmRpt
Rem FrmRpt.Show
Rem ProgramPath.DataField = "DbPath"
Rem MsgBox qs FileName$
Rem REMOVE THIS HARD CODE
LoadAccess = "C:\PCHASER\msarn200.exe " & " C:\PCHASER\" & qs_FileName$ & " /ini
    pchaser.ini"
    X = Shell(LoadAccess, 1)
End Sub
Private Sub CmdTrans Click()
Dim R As Double, Temp As String
Label34.DataField = "ImagePath"
Temp = Label34.Caption & Text34.Text
R = Shell("SUMCLONE.EXE " & Temp, 1)
End Sub

Private Sub Form Load()
Dim MyDb As String, MyDrive As String, Z As Integer
Rem PLACED HERE BECUASE OF PATH PROBLEMS ON CDROM LOAD UP
On Error Resume Next
' hourglass cursor
MousePointer = 11
Me.Left = (Screen.Width - Me.Width) / 2
Me.Top = (Screen.Height - Me.Height) / 2
qs FileName$ = Command$
Rem MsgBox Command$
Data1.DatabaseName = qs FileName$
Data2.DatabaseName = qs FileName$
Data3.DatabaseName = qs FileName$
Data1.RecordSource = "Select * from {Document Info}order by {Doc Number}"
Data2.RecordSource = "Select * from {Preferences}"
Data3.RecordSource = "Select * from {Disk Names}"
Text1.DataField = "Doc Number"
Text2.DataField = "Doc Date"
Text3.DataField = "Beg Bates #"
Text4.DataField = "End Bates #"
Text5.DataField = "To"
Text6.DataField = "From"
Text7.DataField = "CC's"
Text8.DataField = "Description"
Text9.DataField = "Comments"
Text10.DataField = "Tag 1"
Text11.DataField = "Tag 2"
Text12.DataField = "Tag 3"
Text13.DataField = "Tag 4"
Text14.DataField = "Tag 5"
Text15.DataField = "Tag 6"
Text16.DataField = "Tag 7"
Text17.DataField = "Tag 8"
Text18.DataField = "Tag 9"

```

Form1 - 3

```

Text19.DataField = "Taq 10"
Text20.DataField = "Taq 11"
Text21.DataField = "Taq 12"
Text22.DataField = "Taq 13"
Text23.DataField = "Taq 14"
Text24.DataField = "Taq 15"
Text25.DataField = "Taq 16"
Text26.DataField = "Taq 17"
Text27.DataField = "Taq 18"
Text28.DataField = "Taq 19"
Text29.DataField = "Taq 20"
Text30.DataField = "Taq 21"
Text31.DataField = "Taq 22"
Text32.DataField = "Taq 23"
Text33.DataField = "Taq 24"
Text34.DataField = "Entry Info"
Text35.DataField = "DbPath"
Text35.DataField = "Case Name"
Text36.DataField = "Exhibit #"
Text37.DataField = "Ext"
Label10.DataField = "Field 1"
Label11.DataField = "Field 2"
Label12.DataField = "Field 3"
Label13.DataField = "Field 4"
Label14.DataField = "Field 5"
Label15.DataField = "Field 6"
Label16.DataField = "Field 7"
Label17.DataField = "Field 8"
Label18.DataField = "Field 9"
Label19.DataField = "Field 10"
Label20.DataField = "Field 11"
Label21.DataField = "Field 12"
Label22.DataField = "Field 13"
Label23.DataField = "Field 14"
Label24.DataField = "Field 15"
Label25.DataField = "Field 16"
Label26.DataField = "Field 17"
Label27.DataField = "Field 18"
Label28.DataField = "Field 19"
Label29.DataField = "Field 20"
Label30.DataField = "Field 21"
Label31.DataField = "Field 22"
Label32.DataField = "Field 23"
Label33.DataField = "Field 24"
Label34.DataField = "ImagePath"
ImageMan1.AutoScale = 1
ImageMan1.ScaleMethod = 3
Label35.DataField = "DbPath"

' normal cursor
MousePointer = 0
End Sub
Private Sub Form_Paint()
Data1.Refresh
End Sub

Private Sub Form_QueryUnload(Cancel As Integer, UnloadMode As Integer)
End
End Sub

Private Sub Fulltext_Click()
Rem Remove hard coding for Isys
Dim ISYS$, X%
Rem X%
Label34.DataField = "IsysPath"
ISYS = Label34.Caption
ISYS = "C:\ISYS\IQW.EXE /Z /D=" + ISYS
Label34.DataField = "ImagePath"

```

Form1 - 4

```

X = Shell(ISYS, 1)
End Sub
Private Sub ImageMan1 DblClick()
Rem remove hard coding for watermark
Dim Temp As String, R As Double
Label34.DataField = "ImagePath"
Temp = Label34.Caption & Text34.Text
R = Shell("C:\WMPRO\WMPRO.EXE " & Temp, 3)
End Sub
Private Sub ImageMan1 GotFocus()
Data1.Recordset.MoveNext: Data1.Recordset.MovePrevious
End Sub
Private Sub Text1 DblClick()
qs.FieldName$ = "[Doc Number]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text10 DblClick()
qs.FieldName$ = "[Tag 1]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text11 DblClick()
qs.FieldName$ = "[Tag 2]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text12 DblClick()
qs.FieldName$ = "[Tag 3]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text13 DblClick()
qs.FieldName$ = "[Tag 4]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text14 DblClick()
qs.FieldName$ = "[Tag 5]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text15 DblClick()
qs.FieldName$ = "[Tag 6]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text16 DblClick()
qs.FieldName$ = "[Tag 7]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text17 DblClick()
qs.FieldName$ = "[Tag 8]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text18 DblClick()
qs.FieldName$ = "[Tag 9]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text19 DblClick()
qs.FieldName$ = "[Tag 10]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text2 DblClick()
qs.FieldName$ = "[Doc Date]"

```

Form1 - 5

```
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text20_DblClick()
qs FieldName$ = "[Tag 11]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text21_DblClick()
qs FieldName$ = "[Tag 12]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text22_DblClick()
qs FieldName$ = "[Tag 13]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text23_DblClick()
qs FieldName$ = "[Tag 14]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text24_DblClick()
qs FieldName$ = "[Tag 15]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text25_DblClick()
qs FieldName$ = "[Tag 16]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text26_DblClick()
qs FieldName$ = "[Tag 17]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text27_DblClick()
qs FieldName$ = "[Tag 18]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text28_DblClick()
qs FieldName$ = "[Tag 19]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text29_DblClick()
qs FieldName$ = "[Tag 20]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text3_DblClick()
qs FieldName$ = "[Beg Bates #]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text30_DblClick()
qs FieldName$ = "[Tag 21]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text31_DblClick()
qs FieldName$ = "[Tag 22]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text32_DblClick()
```


Form1 - 6

```

qs FieldNames$ = "[Tag 23]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text33 DblClick()
qs FieldNames$ = "[Tag 24]"
Load FrmSearch
FrmSearch.Show
End Sub
Private Sub Text34 Change()
Dim MyDb As String, MyDrive As String, Z As Integer, FileLoc As String
Dim Test As String, BegDocNum As Variant, EndDocNum As Variant, MyPath As String
Dim DocToFind As Variant, CdPresent As String, MyName As String
Dim RemovePrefix As String, X As Double, Msg As String, OldPath As String, InsertDisk As Integer
Label36.Caption = ""

Z = Len(Label35.Caption) - 4: MyDb = Left(Label35.Caption, Z)
MyDrive = Left(MyDb, 3)

On Error GoTo ErrorHandler
LoadDriveType

If Text34.Text = "" Then Label36.Caption = "File not Found. Check Disk"
ImageMan1.Picture = Label34.Caption & Text34.Text
If Text34.Text = "Q.TIF" Then
    ImageMan1.Picture = Label34.Caption & "Q.TIF"
    Label36.Caption = "Picture file not available."
    Exit Sub
End If
If DriveType = "CD-ROM Drive" Then
    X = Len(Label35.Caption): FileLoc = Left(Label35.Caption, X - 4)
    Open FileLoc & "\CDINFO.DAT" For Input As 1#
    DocToFind = Text34.Text
    Input #1, CDROM, RemovePrefix
    MyName = Mid(DocToFind, RemovePrefix): X = Len(DocToFind)
    MyName = Left(MyName, X - 5): DocToFind = Val(MyName)

    Do While Not EOF(1)
        Input #1, DiskNum, BegDocNum, EndDocNum
        If DocToFind >= BegDocNum And DocToFind <= EndDocNum Then Exit Do
    Loop
    Close #1
    If InsertDisk = 0 Then
        Me.Caption = "Paper Chaser - Disk #" & DiskNum & " in CD ROM."
    Else
        Me.Caption = "Paper Chaser - Insert disk #" & DiskNum & " in CD ROM."
    End If
End If

If DriveType = "Network Drive" Or DriveType = "Hard Drive" Then
    Me.Caption = "Paper Chaser - " & Label34.Caption & Text34.Text
End If
Rem Me.Caption = "Paper Chaser - Document Info " & Label34.Caption & Text34.Te
xt
Exit Sub

ErrorHandler:
Select Case Err.Number
    Case 53 "File Not Found"
        Label36.Caption = "File not found."
        ImageMan1.Picture = MyDrive & "PChaser\" & "Q.TIF"
        InsertDisk = 1
        Resume Next
    Case 76 "No Disk" error.
        Label36.Caption = "No Disk in CDROM. Insert a Disk."
        InsertDisk = 1
        Resume Next
    Case 68 "Device not available"

```

Form1 - 7

```

        Label36.Caption = "No Disk in CDROM. Insert a Disk."
        ImageMan1.Picture = MyDrive & "FChaser\" & "Q.TIF"
        InsertDisk = 1
        On Error Resume Next
        Case 32504 "File Not Found"
        Label36.Caption = "File not found."
        ImageMan1.Picture = MyDrive & "FChaser\" & "Q.TIF"
        InsertDisk = 1
        Resume Next
        Case Else
        Rem On Error Resume Next
        MsgBox Err.Number & "Load Error Number"
        Resume Next
    End Select
    Resume
End Sub

Private Sub Text34_DblClick()
    qs.FieldName$ = "[Entry Info]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text36_DblClick()
    qs.FieldName$ = "[Exhibit #]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text37_DblClick()
    qs.FieldName$ = "[Ext]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text4_DblClick()
    qs.FieldName$ = "[End Bates #]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text5_DblClick()
    qs.FieldName$ = "[to]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text6_DblClick()
    qs.FieldName$ = "[from]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text7_DblClick()
    qs.FieldName$ = "[CC's]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text8_DblClick()
    qs.FieldName$ = "[Description]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Private Sub Text9_DblClick()
    qs.FieldName$ = "[Comments]"
    Load FrmSearch
    FrmSearch.Show
End Sub

Function FileExists(Filename As String) As Boolean
    Dim TempAttr As Integer
    If (Len(Filename) = 0) Or (InStr(Filename, "*") > 0) Or (InStr(Filename, "?") > 0) Then
        FileExists = False
        Exit Function
    End If

```

Form1 - 8

```

On Error GoTo ErrorFileExist
TempAttr = GetAttr(Filename)
FileExists = ((TempAttr And vbDirectory) = 0)
GoTo ExitFileExist

ErrorFileExist:
FileExists = False
Resume ExitFileExist

ExitFileExist:
On Error GoTo 0
End Function
Private Sub LoadDriveType()
Dim MyDrive As String
On Error GoTo ErrorHandler
' get drive type of currently selected drive
MyDrive = Left(Label34.Caption, 1): Drive1.Drive = MyDrive
Select Case GetDriveType(UCase(Left(Drive1.Drive, 1)) & ":\")
    Case DRIVE_REMOVABLE
        DriveType = "Floppy Drive"
    Case DRIVE_FIXED
        DriveType = "Hard Drive"
    Case DRIVE_REMOTE
        DriveType = "Network Drive"
    Case DRIVE_CDROM
        DriveType = "CD-ROM Drive"
    Case DRIVE_RAMDISK
        DriveType = "RAM Disk"
    Case 0
        DriveType = "Could not determine drive type."
    Case 1
        DriveType = "Drive does not exist."
    Case Else
        DriveType = "Unknown or Illegal Drive"
End Select
'MsgBox DriveType
Exit Sub

ErrorHandler:
Select Case Err.Number
    Case 68 'No Drive Found - Occurs when no CD ROM is in Drive
        Me.Caption = "Paper Chaser - No Disk in Drive."
    Case Else
        Rem MsgBox Err.Number & "Drive Type Error Number"
End Select
End Sub
Private Sub Drive1_Change()
'load the drive type label when the drive combo
' changes
LoadDriveType
End Sub

```

```

FrmRpt - 1

Option Explicit
Private Sub BitRpt Click()
Dim LoadAccess As String, X As Variant
ProgramPath.DataField = "DbPath"
LoadAccess = "msarn200.exe " & ProgramPath.Caption & " /ini pchaser.ini"
X = Shell(LoadAccess, 1)
End Sub
Private Sub CmdLoad Click()
On Error Resume Next
Dim Tempcase$, ReportFileName$
Tempcase = UCase(List1.Text)
Select Case Tempcase
Case UCase(Form1.Label10.Caption)
ReportFileName$ = "RPT01.RPT"
Case UCase(Form1.Label11.Caption)
ReportFileName$ = "RPT02.RPT"
Case UCase(Form1.Label12.Caption)
ReportFileName$ = "RPT03.RPT"
Case UCase(Form1.Label13.Caption)
ReportFileName$ = "RPT04.RPT"
Case UCase(Form1.Label14.Caption)
ReportFileName$ = "RPT05.RPT"
Case UCase(Form1.Label15.Caption)
ReportFileName$ = "RPT06.RPT"
Case UCase(Form1.Label16.Caption)
ReportFileName$ = "RPT07.RPT"
Case UCase(Form1.Label17.Caption)
ReportFileName$ = "RPT08.RPT"
Case UCase(Form1.Label18.Caption)
ReportFileName$ = "RPT09.RPT"
Case UCase(Form1.Label19.Caption)
ReportFileName$ = "RPT10.RPT"
Case UCase(Form1.Label20.Caption)
ReportFileName$ = "RPT11.RPT"
Case UCase(Form1.Label21.Caption)
ReportFileName$ = "RPT12.RPT"
Case UCase(Form1.Label22.Caption)
ReportFileName$ = "RPT13.RPT"
Case UCase(Form1.Label23.Caption)
ReportFileName$ = "RPT14.RPT"
Case UCase(Form1.Label24.Caption)
ReportFileName$ = "RPT15.RPT"
Case UCase(Form1.Label25.Caption)
ReportFileName$ = "RPT16.RPT"
Case UCase(Form1.Label26.Caption)
ReportFileName$ = "RPT17.RPT"
Case UCase(Form1.Label27.Caption)
ReportFileName$ = "RPT18.RPT"
Case UCase(Form1.Label28.Caption)
ReportFileName$ = "RPT19.RPT"
Case UCase(Form1.Label29.Caption)
ReportFileName$ = "RPT20.RPT"
Case UCase(Form1.Label30.Caption)
ReportFileName$ = "RPT21.RPT"
Case UCase(Form1.Label31.Caption)
ReportFileName$ = "RPT22.RPT"
Case UCase(Form1.Label32.Caption)
ReportFileName$ = "RPT23.RPT"
Case UCase(Form1.Label33.Caption)
ReportFileName$ = "RPT24.RPT"
Case Else
ReportFileName$ = List1.Text & ".rpt"
End Select

CrystalReport1.DataFiles(0) = App.Path & "\" & qs.FileName$
CrystalReport1.ReportFileName = App.Path & "\" & ReportFileName$

On Error GoTo ErrorHandler
FrmRpt.Hide

```

```

FrmRpt - 2
    Form1.Refresh
    CrystalReport1.Action = 1
    Exit Sub
ErrorHandler:
    MsgBox CrystalReport1.LastErrorString
Exit Sub
End Sub
Private Sub Command2_Click()
    Unload FrmRpt
End Sub
Public Sub GetReportNames()
    List1.Clear
    Dim I As Integer, X As Integer, ReportFileName As String, ReportName As String
    Dim currentCharacter As String
    File1.Path = App.Path
    For I = 0 To File1.ListCount - 1
        ReportFileName = File1.List(I)
        ' The following code looks at the files in File1
        ' and strips out ".rpt" from it
        For X = 1 To 64
            currentCharacter$ = Mid$(ReportFileName, X, 1)
            If currentCharacter$ = "." Then Exit For
            ReportName$ = ReportName$ + currentCharacter$
        Next X

        ' the following hunk of code should look at the report name
        ' if it's one of the 24 standard reports, it uses the name
        ' assigned it by the attorney, otherwise it uses the name
        ' as it appears in the directory
        Select Case UCase(ReportName$)
            Case UCase("RPT01")
                List1.AddItem Form1.Label10.Caption
            Case UCase("RPT02")
                List1.AddItem Form1.Label11.Caption
            Case UCase("RPT03")
                List1.AddItem Form1.Label12.Caption
            Case UCase("RPT04")
                List1.AddItem Form1.Label13.Caption
            Case UCase("RPT05")
                List1.AddItem Form1.Label14.Caption
            Case UCase("RPT06")
                List1.AddItem Form1.Label15.Caption
            Case UCase("RPT07")
                List1.AddItem Form1.Label16.Caption
            Case UCase("RPT08")
                List1.AddItem Form1.Label17.Caption
            Case UCase("RPT09")
                List1.AddItem Form1.Label18.Caption
            Case UCase("RPT10")
                List1.AddItem Form1.Label19.Caption
            Case UCase("RPT11")
                List1.AddItem Form1.Label20.Caption
            Case UCase("RPT12")
                List1.AddItem Form1.Label21.Caption
            Case UCase("RPT13")
                List1.AddItem Form1.Label22.Caption
            Case UCase("RPT14")
                List1.AddItem Form1.Label23.Caption
            Case UCase("RPT15")
                List1.AddItem Form1.Label24.Caption
            Case UCase("RPT16")
                List1.AddItem Form1.Label25.Caption
            Case UCase("RPT17")
                List1.AddItem Form1.Label26.Caption
            Case UCase("RPT18")
                List1.AddItem Form1.Label27.Caption
            Case UCase("RPT19")
                List1.AddItem Form1.Label28.Caption
        End Select
    Next I

```

FrmRpt - 3

```

        Case UCase("RPT20")
        List1.AddItem Form1.Label29.Caption
        Case UCase("RPT21")
        List1.AddItem Form1.Label30.Caption
        Case UCase("RPT22")
        List1.AddItem Form1.Label31.Caption
        Case UCase("RPT23")
        List1.AddItem Form1.Label32.Caption
        Case UCase("RPT24")
        List1.AddItem Form1.Label33.Caption
        Case Else
        List1.AddItem ReportName$
        End Select
        ReportName$ = ""           'reset reportName$ to nothing
    Next I
End Sub
Private Sub Form_Load()
On Error GoTo ErrorHandler
Me.Left = (Screen.Width - Me.Width) / 2: Me.Top = (Screen.Height - Me.Height) / 2
Data1.DatabaseName = App.Path & "\" & gs_FileName$
ProgramPath.DataField = "DbPath"
Data1.RecordSource = "Select * from [Preferences]"
Call GetReportNames
Exit Sub
ErrorHandler:
Select Case Err.Number
    Case 0
        Resume Next
    Case Else
        Rem On Error Resume Next
        MsgBox Err.Number & "Load Error Number"
        Resume Next
End Select
End Sub
Private Sub List1_DblClick()
CmdLoad.Value = True
End Sub

```

FrmSearch - 1

```
Option Explicit
Private Sub CmdCancel_Click()
Unload FrmSearch
End Sub
```

```
Private Sub CmdFirst_Click()
Dim MyCriteria As String
Form1.Data1.Recordset.MoveFirst
Form1.Data2.Recordset.MoveFirst
MyCriteria = qs FieldName$ & " like " & "'" & txtSearch.Text & "'"
Form1.Data1.Recordset.FindFirst MyCriteria
If Form1.Data1.Recordset.NoMatch Then
    MsgBox "Term not found in search."
End If
End Sub
```

```
Private Sub CmdNext_Click()
Dim MyCriteria As String
MyCriteria = qs FieldName$ & " like " & "'" & txtSearch.Text & "'"
Form1.Data1.Recordset.FindNext MyCriteria
If Form1.Data1.Recordset.NoMatch Then
    MsgBox "Term not found in search."
End If
End Sub
```

```
Private Sub Form_Load()
Me.Left = (Screen.Width - Me.Width) / 2
Me.Top = (Screen.Height - Me.Height) / 2
End Sub
```

```
GotoDoc - 1

Option Explicit
Private Sub CmdCancel_Click()
Unload GotoDoc
End Sub

Private Sub CmdFirst_Click()
Dim MyCriteria As String
Rem Form1.Data1.Recordset.MoveFirst
MyCriteria = qs FieldName$ & " like " & "*" & txtSearch.Text & "*"
Form1.Data1.Recordset.FindFirst MyCriteria
If Form1.Data1.Recordset.NoMatch Then
    MsgBox "Term not found in search."
End If
End Sub

Private Sub Form_Load()
Me.Left = (Screen.Width - Me.Width) / 2
Me.Top = (Screen.Height - Me.Height) / 2
End Sub
```


Module1 - 1

```
Public qs FieldName$
Public qs FileName$
Public CurrentDisk As Variant
Public DiskNum As Variant
Public MyCriteria As String
```

frmImageViewer - 1

```
'Document Image Viewer - Doc I.V.
'Copyright (c) 1996, Tempest Software Inc.
Option Explicit
Defint A-Z
Private Declare Function WritePrivateProfileString Lib "Kernel" (ByVal lpApplica
tionName As String, lpKeyName As Any, lpString As Any, ByVal lpFileName As Stri
ng) As Integer
Dim sImgFileName As String
Dim iNumOfPages As Integer
Dim iCurrentPage As Integer
Dim iQualityFactor As Integer
'General Constants
Const SCROLL BAR = 250
Const PROGRAM NAME = "Doc I.V."
'VisualBasic Constants
Const OFN HIDEREADONLY = &H4&
Const PD PRINTSETUP = &H40&
'TMS Constants
Const VX FULLIMAGE = 0
Const VX ZOOMIN = 1
Const VX ZOOMRECT = 3
Const VX STARTPRINT = 5
Const VX PRINT = 6
Const VX ENDPRINT = 7
Const VX MARKHOLLOW = 2
Const VX MAGNIFIER = 3
Const VX NONE = 0
Const VX HORIZONTAL = 1
Const VX VERTICAL = 2
Const VX BOTH = 3
Const VX BESTFIT = 1
Const VX FULLWIDTH = 2
Const VX FULLHEIGHT = 3
'TMS Error Constants
Const ERR BADFILENAME = 20000
Const ERR BADPROPVALUE = 20001
Const ERR NOIMAGE = 20002
Const ERR NOPRINTER = 20003
Const ERR GETPALETTE = 20004
Const ERR INTERROR = 20005
Const ERR BADDC = 20006
Const ERR BAD WINDOW = 20500
Const ERR CLIPBOARD ERROR = 20501
Const ERR BITMAP ERROR = 20502
Const ERR NO PRINTER = 20503
Const ERR NO GRAPHICS = 20504
Const ERR PRINT ABORTED = 20505
Const ERR BAD PAGENUM = 20506
Const ERR PRINT BUSY = 20507
Const ERR BAD PERCENT = 20508
Const ERR NO RECT = 20509
Const ERR CANT ZOOM = 20510
Const ERR CANT SCROLL = 20511
Const ERR NO MEMORY = 20512
Const ERR_BAD_PARM = 20513

Private Sub exitProgram()
    Call preferencesSave
    Unload frmImageViewer
End Sub

Private Sub fileOpen()
    On Error Resume Next
    frmImageViewer.vdVBX.Visible = False
    frmImageViewer.vdVBX.filename = sImgFileName$
    iNumOfPages% = vdVBX.Pages
    iCurrentPage% = vdVBX.Page + 1
    HScroll11.Value = 0
```

```

frmImageViewer - 2
    Select Case iNumOfPages%
    Case 0
        HScroll1.Visible = False
        MsgBox "The specified file name is" & Chr(10) & "either not a valid file name," & Chr(10) & "or is not in an accepted image format.", 0, "Error loading file."
        frmImageViewer.Caption = PROGRAM_NAME
        Exit Sub
    Case 1
        HScroll1.Visible = False
        frmImageViewer.Caption = frmImageViewer.CMDDialog1.FileTitle
    Case Else
        HScroll1.Visible = True
        frmImageViewer.Caption = frmImageViewer.CMDDialog1.FileTitle & "    Page " & iCurrentPage% & " of " & iNumOfPages%
    End Select
    Call menuEnabled
    Call imageRefresh
End Sub

Private Sub Form Load()
    Call preferencesLoad
    Call menuDisabled
    frmImageViewer.Caption = PROGRAM_NAME
    frmImageViewer.vdVBX.Visible = False
    frmImageViewer.vdVBX.MagnifyRatio = 2
    frmImageViewer.vdVBX.ZoomRatio = 50
    vdVBX.RightMouseStyle = VX_MAGNIFIER
    vdVBX.LeftMouseStyle = VX_MARKHOLLOW
    HScroll1.Visible = False
    If gFileName$ <> "" Then
        sImgFileName$ = gFileName$
        Call fileOpen
    End If
End Sub

Private Sub Form Resize()
    On Error Resume Next
    frmImageViewer.vdVBX.Visible = False
    vdVBX.Width = frmImageViewer.ScaleWidth
    vdVBX.Height = frmImageViewer.ScaleHeight - vdVBX.Top
    HScroll1.Left = 20
    HScroll1.Top = frmImageViewer.ScaleHeight - HScroll1.Height - 217
    Call imageRefresh
End Sub

Private Sub Form Unload(Cancel As Integer)
    Call exitProgram
End Sub

Private Sub HScroll1_Change()
    On Error Resume Next
    HScroll1.Max = iNumOfPages - 1
    HScroll1.Min = 0
    frmImageViewer.vdVBX.Visible = False
    frmImageViewer.vdVBX.Page = HScroll1.Value
    iCurrentPage = HScroll1.Value + 1
    frmImageViewer.Caption = frmImageViewer.CMDDialog1.FileTitle & "    Page " & iCurrentPage% & " of " & iNumOfPages%
    Call imageRefresh
End Sub

Private Sub imageRefresh()
    On Error Resume Next
    If mnuPreferencesFitHeight.Checked = True Then
        frmImageViewer.vdVBX.ImageScaleHeight = vdVBX.Height - SCROLL_BAR
    ElseIf mnuPreferencesFitWidth.Checked = True Then
        frmImageViewer.vdVBX.ImageScaleWidth = vdVBX.Width - SCROLL_BAR
    End If

```

frmImageViewer - 3

```
frmImageViewer.vdVBX.ImageScaleLeft = 0
frmImageViewer.vdVBX.ImageScaleTop = 0
frmImageViewer.vdVBX.Visible = True
Call menuPageCheck
frmImageViewer.vdVBX.SetFocus
End Sub
```

```
Private Sub menuDisabled()
mnuFilePrint.Enabled = False
mnuPageNext.Enabled = False
mnuPagePrevious.Enabled = False
mnuPageFirst.Enabled = False
mnuPageLast.Enabled = False
mnuPageGoto.Enabled = False
mnuZoomZoomIn.Enabled = False
mnuZoomZoomOut.Enabled = False
mnuEffectsRotateC.Enabled = False
mnuEffectsRotateCC.Enabled = False
mnuEffectsRotateImageFlip.Enabled = False
mnuEffectsRotateReset.Enabled = False
mnuEffectsMirrorH.Enabled = False
mnuEffectsMirrorV.Enabled = False
mnuEffectsMirrorBoth.Enabled = False
mnuEffectsMirrorReset.Enabled = False
mnuPreferencesInvertColors.Enabled = False
End Sub
```

```
Private Sub menuEnabled()
mnuFilePrint.Enabled = True
mnuPageNext.Enabled = True
mnuPagePrevious.Enabled = True
mnuPageFirst.Enabled = True
mnuPageLast.Enabled = True
mnuPageGoto.Enabled = True
mnuZoomZoomIn.Enabled = True
mnuZoomZoomOut.Enabled = True
mnuEffectsRotateC.Enabled = True
mnuEffectsRotateCC.Enabled = True
mnuEffectsRotateImageFlip.Enabled = True
mnuEffectsRotateReset.Enabled = True
mnuEffectsMirrorH.Enabled = True
mnuEffectsMirrorV.Enabled = True
mnuEffectsMirrorBoth.Enabled = True
mnuEffectsMirrorReset.Enabled = True
mnuPreferencesInvertColors.Enabled = True
End Sub
```

```
Private Sub menuPageCheck()
If vdVBX.Pages = 0 Then Exit Sub
' check for page numbers if only one page disable all pageroutines
If vdVBX.Pages = 1 Then
mnuPageNext.Enabled = False
mnuPagePrevious.Enabled = False
mnuPageFirst.Enabled = False
mnuPageLast.Enabled = False
mnuPageGoto.Enabled = False
Exit Sub
End If
'check for 1st page
If HScroll11.Value = 0 Then
mnuPagePrevious.Enabled = False
mnuPageFirst.Enabled = False
mnuPageNext.Enabled = True
mnuPageLast.Enabled = True
ElseIf HScroll11.Value = (iNumOfPages - 1) Then
mnuPagePrevious.Enabled = True
mnuPageFirst.Enabled = True
mnuPageNext.Enabled = False
mnuPageLast.Enabled = False
```

```
frmImageViewer - 4

Else
    mnuPagePrevious.Enabled = True
    mnuPageFirst.Enabled = True
    mnuPageNext.Enabled = True
    mnuPageLast.Enabled = True
End If
End Sub

Private Sub mnuEffectsMirrorBoth Click()
    Select Case frmImageViewer.vdVBX.Mirror
        Case VX_NONE
            frmImageViewer.vdVBX.Mirror = VX_BOTH
        Case VX_BOTH
            frmImageViewer.vdVBX.Mirror = VX_NONE
        Case VX_VERTICAL
            frmImageViewer.vdVBX.Mirror = VX_HORIZONTAL
        Case VX_HORIZONTAL
            frmImageViewer.vdVBX.Mirror = VX_VERTICAL
    End Select
    imageRefresh
End Sub

Private Sub mnuEffectsMirrorH Click()
    Select Case frmImageViewer.vdVBX.Mirror
        Case VX_NONE
            frmImageViewer.vdVBX.Mirror = VX_HORIZONTAL
        Case VX_HORIZONTAL
            frmImageViewer.vdVBX.Mirror = VX_NONE
        Case VX_BOTH
            frmImageViewer.vdVBX.Mirror = VX_VERTICAL
        Case VX_VERTICAL
            frmImageViewer.vdVBX.Mirror = VX_BOTH
    End Select
    imageRefresh
End Sub

Private Sub mnuEffectsMirrorReset Click()
    frmImageViewer.vdVBX.Mirror = VX_NONE
    imageRefresh
End Sub

Private Sub mnuEffectsMirrorV Click()
    Select Case frmImageViewer.vdVBX.Mirror
        Case VX_NONE
            frmImageViewer.vdVBX.Mirror = VX_VERTICAL
        Case VX_VERTICAL
            frmImageViewer.vdVBX.Mirror = VX_NONE
        Case VX_BOTH
            frmImageViewer.vdVBX.Mirror = VX_HORIZONTAL
        Case VX_HORIZONTAL
            frmImageViewer.vdVBX.Mirror = VX_BOTH
    End Select
    imageRefresh
End Sub

Private Sub mnuEffectsRotateC Click()
    Select Case frmImageViewer.vdVBX.Rotation
        Case 0
            frmImageViewer.vdVBX.Rotation = 90
        Case 90
            frmImageViewer.vdVBX.Rotation = 180
        Case 180
            frmImageViewer.vdVBX.Rotation = 270
        Case 270
            frmImageViewer.vdVBX.Rotation = 0
    End Select
    imageRefresh
End Sub
```

frmImageViewer - 5

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```
Private Sub mnuEffectsRotateCC Click()
    Select Case frmImageViewer.vdVBX.Rotation
    Case 0
        frmImageViewer.vdVBX.Rotation = 270
    Case 90
        frmImageViewer.vdVBX.Rotation = 0
    Case 180
        frmImageViewer.vdVBX.Rotation = 90
    Case 270
        frmImageViewer.vdVBX.Rotation = 180
    End Select
    imageRefresh
End Sub
```

```
Private Sub mnuEffectsRotateImageFlip Click()
    Select Case frmImageViewer.vdVBX.Rotation
    Case 0
        frmImageViewer.vdVBX.Rotation = 180
    Case 90
        frmImageViewer.vdVBX.Rotation = 270
    Case 180
        frmImageViewer.vdVBX.Rotation = 0
    Case 270
        frmImageViewer.vdVBX.Rotation = 90
    End Select
    imageRefresh
End Sub
```

```
Private Sub mnuEffectsRotateReset Click()
    frmImageViewer.vdVBX.Rotation = 0
    imageRefresh
End Sub
```

```
Private Sub mnuFileExit_Click()
    Call exitProgram
End Sub
```

```
Private Sub mnuFileOpen Click()
    On Error GoTo loadError
    frmImageViewer.vdVBX.Visible = False
    frmImageViewer.HScroll1.Visible = False
    frmImageViewer.Caption = PROGRAM_NAME
    frmImageViewer.CMDialog1.CancelError = True
    frmImageViewer.CMDialog1.DialogTitle = "Open Image File"
    frmImageViewer.CMDialog1.Flags = OFN HIDEREADONLY
    frmImageViewer.CMDialog1.Filter = "All Images (*.*)|*.bmp;*.jpg;*.pcx;*.tif;|
JPEG files (*.jpg)|*.jpg|PCX files (*.pcx)|*.pcx|TIFF files (*.tif)|*.tif|
Windows Bitmap (*.bmp)|*.bmp "
    frmImageViewer.CMDialog1.FilterIndex = 1
    frmImageViewer.CMDialog1.Action = 1
    sImgFileName$ = frmImageViewer.CMDialog1.filename
    frmImageViewer.vdVBX.Quality = iQualityFactor%
    Call fileOpen
    Exit Sub
loadError:
    frmImageViewer.Caption = PROGRAM_NAME
    Exit Sub
End Sub
```

```
Private Sub mnuFilePrint Click()
    vdVBX.PrintStyle = VX FULLIMAGE
    vdVBX.Action = VX STARTPRINT
    vdVBX.Action = VX PRINT
    vdVBX.Action = VX_ENDPRINT
End Sub
```

```
Private Sub mnuFilePrintSetup_Click()
    Dim CancelFlag As Integer
    CancelFlag = True
```

```

frmImageViewer - 6
    On Error Resume Next
    CMDialog1.CancelError = True
    CMDialog1.Flags = PD_PRINTSETUP
    CMDialog1.Action = 5
    If (Err = 0) Then
        CancelFlag = False
    End If
    If (CancelFlag = True) Then Exit Sub
End Sub

Private Sub mnuHelpAbout_Click()
    Load frmAbout
    frmAbout.Show 1
    frmImageViewer.Show
End Sub

Private Sub mnuPageFirst_Click()
    HScroll1.Value = 0
End Sub

Private Sub mnuPageGoto_Click()
    Load frmGotoPage
    frmGotoPage.Show 1
End Sub

Private Sub mnuPageLast_Click()
    HScroll1.Value = vdVBX.Pages - 1
End Sub

Private Sub mnuPageNext_Click()
    HScroll1.Value = HScroll1.Value + 1
End Sub

Private Sub mnuPagePrevious_Click()
    HScroll1.Value = HScroll1.Value - 1
End Sub

Private Sub mnuPreferencesFitHeight_Click()
    mnuPreferencesFitHeight.Checked = True
    mnuPreferencesFitWidth.Checked = False
    Call imageRefresh
End Sub

Private Sub mnuPreferencesFitWidth_Click()
    mnuPreferencesFitHeight.Checked = False
    mnuPreferencesFitWidth.Checked = True
    Call imageRefresh
End Sub

Private Sub mnuPreferencesImageQualityHigh_Click()
    iQualityFactor% = 10
    mnuPreferencesImageQualityLow.Checked = False
    mnuPreferencesImageQualityMedium.Checked = False
    mnuPreferencesImageQualityHigh.Checked = True
    vdVBX.Quality = iQualityFactor%
End Sub

Private Sub mnuPreferencesImageQualityLow_Click()
    iQualityFactor% = 0
    mnuPreferencesImageQualityLow.Checked = True
    mnuPreferencesImageQualityMedium.Checked = False
    mnuPreferencesImageQualityHigh.Checked = False
    vdVBX.Quality = iQualityFactor%
End Sub

Private Sub mnuPreferencesImageQualityMedium_Click()
    iQualityFactor% = 5
    mnuPreferencesImageQualityLow.Checked = False
    mnuPreferencesImageQualityMedium.Checked = True

```

```

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    mnuPreferencesImageQualityHigh.Checked = False
    vdVBX.Quality = iQualityFactor%
End Sub

Private Sub mnuPreferencesInvertColors Click()
    If frmImageViewer.vdVBX.Invert = True Then
        frmImageViewer.vdVBX.Invert = False
        frmImageViewer.mnuPreferencesInvertColors.Checked = False
    Else
        frmImageViewer.vdVBX.Invert = True
        frmImageViewer.mnuPreferencesInvertColors.Checked = True
    End If
End Sub

Private Sub mnuZoomZoomIn_Click()
    Call zoomIn
End Sub

Private Sub mnuZoomZoomOut_Click()
    Call zoomOut
End Sub

Private Sub preferencesLoad()
    frmImageViewer.Left = qFormLeft&
    frmImageViewer.Top = qFormTop&
    frmImageViewer.Width = qFormWidth&
    frmImageViewer.Height = qFormHeight&
    If InStr(qFitWidth$, "TRUE") Then
        mnuPreferencesFitHeight.Checked = False
        mnuPreferencesFitWidth.Checked = True
    Else
        mnuPreferencesFitHeight.Checked = True
        mnuPreferencesFitWidth.Checked = False
    End If
    Select Case gQualityFactor%
    Case 0
        mnuPreferencesImageQualityLow.Checked = True
        mnuPreferencesImageQualityMedium.Checked = False
        mnuPreferencesImageQualityHigh.Checked = False
        iQualityFactor% = 0
    Case 5
        mnuPreferencesImageQualityLow.Checked = False
        mnuPreferencesImageQualityMedium.Checked = True
        mnuPreferencesImageQualityHigh.Checked = False
        iQualityFactor% = 5
    Case 10
        mnuPreferencesImageQualityLow.Checked = False
        mnuPreferencesImageQualityMedium.Checked = False
        mnuPreferencesImageQualityHigh.Checked = True
        iQualityFactor% = 10
    End Select
End Sub

Private Sub preferencesSave()
    'On Error Resume Next
    Dim iRet%
    Dim sSection$
    Dim sEntry$
    Dim sValue$
    Dim sFileName$
    If Right(App.Path, 1) = "\" Then
        sFileName$ = App.Path & "dociv.ini"
    Else
        sFileName$ = App.Path & "\" & "dociv.ini"
    End If
    sSection$ = "Form Position"
    sEntry$ = "Form Width"
    sValue$ = Str(frmImageViewer.Width)
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,

```



```

frmImageViewer - 8
ByVal sFileName)
    sEntry$ = "Form Height"
    sValue$ = Str(frmImageViewer.Height)
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,
ByVal sFileName)
    sEntry$ = "Form Left"
    sValue$ = Str(frmImageViewer.Left)
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,
ByVal sFileName)
    sEntry$ = "Form Top"
    sValue$ = Str(frmImageViewer.Top)
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,
ByVal sFileName)
    sSection$ = "Preferences"
    sEntry$ = "Fit Width"
    If mnuPreferencesFitWidth.Checked = True Then
        sValue$ = "TRUE"
    Else
        sValue$ = "FALSE"
    End If
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,
ByVal sFileName)
    sEntry$ = "Image Quality"
    sValue$ = Str(iQualityFactor%)
    iRet = WritePrivateProfileString(ByVal sSection, ByVal sEntry, ByVal sValue,
ByVal sFileName)
End Sub

Private Sub vdVBX Status(Index As Integer, Status As Integer, Value As Long)
    On Error Resume Next
    If frmImageViewer.vdVBX.Marked = True Then
        frmImageViewer.vdVBX.Action = VX_ZOOMRECT
    End If
End Sub

Private Sub zoomIn()
    On Error Resume Next
    frmImageViewer.vdVBX.ZoomRatio = 50
    frmImageViewer.vdVBX.Action = VX_ZOOMIN
End Sub

Private Sub zoomOut()
    On Error Resume Next
    frmImageViewer.vdVBX.ZoomRatio = 50
    frmImageViewer.vdVBX.Action = 2 'VX_ZOOMOUT
End Sub

```

```

frmIntro - 1

Option Explicit
Defint A-Z
Private Declare Function GetPrivateProfileString Lib "Kernel" (ByVal lpApplicati
onName As String, lpKeyName As Any, ByVal lpDefault As String, ByVal lpReturnedS
tring As String, ByVal nSize As Integer, ByVal lpFileName As String) As Integer

Private Sub displayText()
    FontSize = 100
    frmIntro.CurrentX = 22: frmIntro.CurrentY = 52
    ForeColor = QBColor(8)
    Print "Doc I.V."
    frmIntro.CurrentX = 20: frmIntro.CurrentY = 50
    ForeColor = QBColor(15)
    Print "Doc I.V."
    frmIntro.CurrentX = 21: frmIntro.CurrentY = 51
    ForeColor = QBColor(7)
    Print "Doc I.V."
    '*****
    FontSize = 18
    frmIntro.CurrentX = 72: frmIntro.CurrentY = 202
    ForeColor = QBColor(8)
    Print "The Multiple Format Image Viewer"
    frmIntro.CurrentX = 70: frmIntro.CurrentY = 200
    ForeColor = QBColor(15)
    Print "The Multiple Format Image Viewer"
    frmIntro.CurrentX = 71: frmIntro.CurrentY = 201
    ForeColor = QBColor(7)
    Print "The Multiple Format Image Viewer"
    '*****
    frmIntro.CurrentX = 17: frmIntro.CurrentY = 302
    ForeColor = QBColor(8)
    Print "Doc IV, Copyright (c) 1996, Tempest Software"
    frmIntro.CurrentX = 15: frmIntro.CurrentY = 300
    ForeColor = QBColor(15)
    Print "Doc IV, Copyright (c) 1996, Tempest Software"
    frmIntro.CurrentX = 16: frmIntro.CurrentY = 301
    ForeColor = QBColor(7)
    Print "Doc IV, Copyright (c) 1996, Tempest Software"
End Sub

Private Sub exitSplashScreen()
    frmImageViewer.Show
    frmIntro.Hide
    Unload frmIntro
End Sub

Private Sub Form Click()
    exitSplashScreen
End Sub

Private Sub Form KeyPress(KeyAscii As Integer)
    exitSplashScreen
End Sub

Private Sub Form Load()
    On Error Resume Next
    frmIntro.Left = (Screen.Width - frmIntro.Width) / 2
    frmIntro.Top = (Screen.Height - frmIntro.Height) / 2
    Call preferencesCheck
    qFileNames = Command$
    Load frmImageViewer
    If qFileNames <> "" Then
        Load frmImageViewer
        Call exitSplashScreen
    End If
End Sub

Private Sub Form Paint()
    Call displayText

```

frmIntro - 2

End Sub

```

Private Sub preferencesCheck()
    Dim sFileName$
    Dim sSection$
    Dim sKeyNames$
    Dim sDefault$
    Dim sReturn$
    Dim iReturnSize%
    Dim iReturn%
    If Right(App.Path, 1) = "\" Then
        sFileName$ = App.Path & "dociv.ini"
    Else
        sFileName$ = App.Path & "\" & "dociv.ini"
    End If
    sSection$ = "Form Position"
    sReturn$ = Space$(10)
    iReturnSize% = 10
    sKeyNames$ = "Form Height"
    sDefault$ = Str(Screen.Height)
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qFormHeight% = Val(sReturn$)
    sKeyNames$ = "Form Width"
    sDefault$ = Str(Screen.Width)
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qFormWidth% = Val(sReturn$)
    sKeyNames$ = "Form Left"
    sDefault$ = "0"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qFormLeft% = Val(sReturn$)
    sKeyNames$ = "Form Top"
    sDefault$ = "0"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qFormTop% = Val(sReturn$)
    sSection$ = "Preferences"
    sKeyNames$ = "Fit Width"
    sDefault$ = "TRUE"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qFitWidth$ = sReturn$
    sKeyNames$ = "Image Quality"
    sDefault$ = "5"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qQualityFactor% = Val(sReturn$)
    sKeyNames$ = "Start Up Screen"
    sDefault$ = "TRUE"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyNames$, sDefault
$, sReturn$, iReturnSize%, ByVal sFileName$)
    qStartUpScreen$ = sReturn$
    If InStr(qStartUpScreen$, "FALSE") Then
        Load frmImageViewer
        Call exitSplashScreen
    End If
End Sub

Private Sub Timer1_Timer()
    exitSplashScreen
End Sub

```

```

frmGotoPage - 1

Option Explicit
DefInt A-Z
Dim iPageNumber As Integer

Private Sub cmdOK Click()
    If iPageNumber > 0 Then
        frmImageViewer.HScroll1.Value = iPageNumber - 1
    End If
    frmGotoPage.Hide
    Unload frmGotoPage
End Sub

Private Sub Form Load()
    frmGotoPage.Left = (Screen.Width - frmGotoPage.Width) / 2
    frmGotoPage.Top = (Screen.Height - frmGotoPage.Height) / 2
    lblNumOfPages.Caption = "There are " & frmImageViewer.vdVBX.Pages & " pages i
n this file."
End Sub

Private Sub txtGotoPage Change()
    ' this must only be a number and it must be > 0 & < total number of pages
    On Error Resume Next
    iPageNumber = txtGotoPage.Text
End Sub

frmAbout - 1

Option Explicit
DefInt A-Z

Private Sub cmdOK_Click()
    frmAbout.Hide
    Unload frmAbout
End Sub

Private Sub Form Load()
    frmAbout.Left = (Screen.Width - frmAbout.Width) / 2
    frmAbout.Top = (Screen.Height - frmAbout.Height) / 2
End Sub

GLOBALS - 1

Option Explicit
Global gFormWidth&
Global gFormHeight&
Global gFormLeft&
Global gFormTop&
Global gFitWidth$
Global gQualityFactor%
Global gFileName$
'Global gStartUpScreen$

```

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Text Align:	General	Top:	3120
Visible:	Yes	Width:	1149

Code

```

1 Option Compare Database 'Use database order for string comparisons
2
3 Sub Button23_Click ()
4 On Error GoTo Err_Button23_Click
5
6     Dim DocName As String
7     Dim LinkCriteria As String
8
9     DocName = "Form1"
10    DoCmd OpenForm DocName, , , LinkCriteria
11
12 Exit_Button23_Click:
13     Exit Sub
14
15 Err_Button23_Click:
16     MsgBox Error$
17     Resume Exit_Button23_Click
18
19 End Sub
20
21 Sub Exhibits_Click ()
22 On Error GoTo Err_Exhibits_Click
23
24     Dim DocName As String
25     Dim LinkCriteria As String
26
27     DocName = "Exhibit List"
28     DoCmd OpenForm DocName, , , LinkCriteria
29
30 Exit_Exhibits_Click:
31     Exit Sub
32
33 Err_Exhibits_Click:
34     MsgBox Error$
35     Resume Exit_Exhibits_Click
36
37 End Sub
38
39 Sub Form_GotFocus ()
40 DoCmd Maximize
41 End Sub
42
43 Sub Form_MouseMove (Button As Integer, Shift As Integer, X As Single, Y As
Single)
44 Me.Width = screen.Width

```

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```
45 Me.height = screen.height
46 Me.left = (screen.width - Me.width) - 2
47 Me.Top = (screen.height - Me.height) - 2
48 End Sub
49
50 Sub Form_MouseUp (Button As Integer, Shift As Integer, X As Single, Y As Single)
51 Me.width = screen.width
52 Me.height = screen.height
53 Me.left = 0
54 Me.Top = 0
55 End Sub
56
57 Sub Form_Open (Cancel As Integer)
58 ahtAccessSystemItems False, True, True
59 End Sub
60
61 Sub Report_Menu_Click ()
62 On Error GoTo Err_Report_Menu_Click
63
64     Dim DocName As String
65     Dim LinkCriteria As String
66
67     DocName = "Print Menu"
68     DoCmd OpenForm DocName, , , LinkCriteria
69
70 Exit_Report_Menu_Click:
71     Exit Sub
72
73 Err_Report_Menu_Click:
74     MsgBox Error$
75     Resume Exit_Report_Menu_Click
76
77 End Sub
78
79 Sub Reports_Menu_Click ()
80 On Error GoTo Err_Reports_Menu_Click
81
82     Dim DocName As String
83     Dim LinkCriteria As String
84
85     DocName = "Print Menu"
86     DoCmd OpenForm DocName, , , LinkCriteria
87
88 Exit_Reports_Menu_Click:
89     Exit Sub
90
91 Err_Reports_Menu_Click:
92     MsgBox Error$
93     Resume Exit_Reports_Menu_Click
94
95 End Sub
```

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```
96
97 Sub Text_Search_Click ()
98 Dim ISYS$, X%
99 ISYS = DLookup("IsysPath", "Preferences")
100 ISYS = "C:\ISYS\IQW.EXE /Z /D=" + ISYS
101 X = Shell(ISYS, 1)
102 End Sub
103
104 Sub Transcript_Click ()
105 On Error GoTo Err_Transcript_Click
106
107     Dim X As Integer
108     Dim AppName As String
109
110     AppName = "C:\ACCESS\SUMCLONE.EXE"
111     X = Shell(AppName, 1)
112
113 Exit_Transcript_Click:
114     Exit Sub
115
116 Err_Transcript_Click:
117     MsgBox Error$
118     Resume Exit_Transcript_Click
119
120 End Sub
121
122 Sub Transcript_Search_Click ()
123 On Error GoTo Err_Transcript_Search_Click
124
125     Dim X As Integer
126     Dim AppName As String
127
128     AppName = "SUMCLONE.EXE"
129     X = Shell(AppName, 1)
130
131 Exit_Transcript_Search_Click:
132     Exit Sub
133
134 Err_Transcript_Search_Click:
135     MsgBox Error$
136     Resume Exit_Transcript_Search_Click
137
138 End Sub
139
140 Sub Transcripts_Click ()
141 On Error GoTo Err_Transcripts_Click
142
143     Dim X As Integer
144     Dim AppName As String
145
146     AppName = "SUMCLONE.EXE"
```

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```
147      X = Shell(AppName, 1)
148
149 Exit_Transcripts_Click:
150     Exit Sub
151
152 Err_Transcripts_Click:
153     MsgBox Error$
154     Resume Exit_Transcripts_Click
155
156 End Sub
157
```


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Form: Preferences

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Scroll Bars:	None	Section:	0
Special Effect:	Sunken	Tab Index:	4
Tab Stop:	Yes	Text Align:	General
Top:	1560	Visible:	Yes
Width:	3600		

Code

```
1 Option Compare Database 'Use database order for string comparisons
2
3 Sub Return_to_System_Men_Click ()
4 On Error GoTo Err_Return_to_System_Men_Click
5
6
7 DoCmd Close
8
9 Exit_Return_to_System_Men_Click:
10 Exit Sub
11
12 Err_Return_to_System_Men_Click:
13 MsgBox Error$
14 Resume Exit_Return_to_System_Men_Click
15
16 End Sub
17
```

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```
28 Exit_Comments_Click:
29     Exit Sub
30
31 Err_Comments_Click:
32     MsgBox Error$
33     Resume Exit_Comments_Click
34
35 End Sub
36
37 Sub Date_Range_Click ()
38 On Error GoTo Err_Date_Range_Click
39
40     Dim DocName As String
41
42     DocName = "Date Range"
43     DoCmd OpenReport DocName, A_PREVIEW
44
45 Exit_Date_Range_Click:
46     Exit Sub
47
48 Err_Date_Range_Click:
49     MsgBox Error$
50     Resume Exit_Date_Range_Click
51
52 End Sub
53
54 Sub Description_Click ()
55 On Error GoTo Err_Description_Click
56
57     Dim DocName As String
58
59     DocName = "Search Term in Description"
60     DoCmd OpenReport DocName, A_PREVIEW
61
62 Exit_Description_Click:
63     Exit Sub
64
65 Err_Description_Click:
66     MsgBox Error$
67     Resume Exit_Description_Click
68
69 End Sub
70
71 Sub Doc__Find_Click ()
72 On Error GoTo Err_Doc__Find_Click
73
74     Dim DocName As String
75
76     DocName = "Document # Find"
77     DoCmd OpenReport DocName, A_PREVIEW
78
```

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```
79 Exit_Doc__Find_Click:
80     Exit Sub
81
82 Err_Doc__Find_Click:
83     MsgBox Error$
84     Resume Exit_Doc__Find_Click
85
86 End Sub
87
88 Sub Names_Click ()
89 On Error GoTo Err_Names_Click
90
91     Dim DocName As String
92
93     DocName = "Names"
94     DoCmd OpenReport DocName, A_PREVIEW
95
96 Exit_Names_Click:
97     Exit Sub
98
99 Err_Names_Click:
100     MsgBox Error$
101     Resume Exit_Names_Click
102
103 End Sub
104
105 Sub Seach_From_Click ()
106 On Error GoTo Err_Seach_From_Click
107
108     Dim DocName As String
109
110     DocName = "Search From"
111     DoCmd OpenReport DocName, A_PREVIEW
112
113 Exit_Seach_From_Click:
114     Exit Sub
115
116 Err_Seach_From_Click:
117     MsgBox Error$
118     Resume Exit_Seach_From_Click
119
120 End Sub
121
122 Sub Search_CCs_Click ()
123 On Error GoTo Err_Search_CCs_Click
124
125     Dim DocName As String
126
127     DocName = "Search CCs"
128     DoCmd OpenReport DocName, A_PREVIEW
129
```

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```
181 Exit_Tag_1_Click:
182     Exit Sub
183
184 Err_Tag_1_Click:
185     MsgBox Error$
186     Resume Exit_Tag_1_Click
187
188 End Sub
189
190 Sub Tag_10_Click ()
191 On Error GoTo Err_Tag_10_Click
192
193     Dim DocName As String
194
195     DocName = "List10"
196     DoCmd OpenReport DocName, A_PREVIEW
197
198 Exit_Tag_10_Click:
199     Exit Sub
200
201 Err_Tag_10_Click:
202     MsgBox Error$
203     Resume Exit_Tag_10_Click
204
205 End Sub
206
207 Sub Tag_11_Click ()
208 On Error GoTo Err_Tag_11_Click
209
210     Dim DocName As String
211
212     DocName = "List11"
213     DoCmd OpenReport DocName, A_PREVIEW
214
215 Exit_Tag_11_Click:
216     Exit Sub
217
218 Err_Tag_11_Click:
219     MsgBox Error$
220     Resume Exit_Tag_11_Click
221
222 End Sub
223
224 Sub Tag_12_Click ()
225 On Error GoTo Err_Tag_12_Click
226
227     Dim DocName As String
228
229     DocName = "List12"
230     DoCmd OpenReport DocName, A_PREVIEW
231
```

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```
232 Exit_Tag_12_Click:
233     Exit Sub
234
235 Err_Tag_12_Click:
236     MsgBox Error$
237     Resume Exit_Tag_12_Click
238
239 End Sub
240
241 Sub Tag_13_Click ()
242 On Error GoTo Err_Tag_13_Click
243
244     Dim DocName As String
245
246     DocName = "List13"
247     DoCmd OpenReport DocName, A_PREVIEW
248
249 Exit_Tag_13_Click:
250     Exit Sub
251
252 Err_Tag_13_Click:
253     MsgBox Error$
254     Resume Exit_Tag_13_Click
255
256 End Sub
257
258 Sub Tag_14_Click ()
259 On Error GoTo Err_Tag_14_Click
260
261     Dim DocName As String
262
263     DocName = "List14"
264     DoCmd OpenReport DocName, A_PREVIEW
265
266 Exit_Tag_14_Click:
267     Exit Sub
268
269 Err_Tag_14_Click:
270     MsgBox Error$
271     Resume Exit_Tag_14_Click
272
273 End Sub
274
275 Sub Tag_15_Click ()
276 On Error GoTo Err_Tag_15_Click
277
278     Dim DocName As String
279
280     DocName = "List15"
281     DoCmd OpenReport DocName, A_PREVIEW
282
```

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```
283 Exit_Tag_15_Click:
284     Exit Sub
285
286 Err_Tag_15_Click:
287     MsgBox Error$
288     Resume Exit_Tag_15_Click
289
290 End Sub
291
292 Sub Tag_16_Click ()
293 On Error GoTo Err_Tag_16_Click
294
295     Dim DocName As String
296
297     DocName = "List16"
298     DoCmd OpenReport DocName, A_PREVIEW
299
300 Exit_Tag_16_Click:
301     Exit Sub
302
303 Err_Tag_16_Click:
304     MsgBox Error$
305     Resume Exit_Tag_16_Click
306
307 End Sub
308
309 Sub Tag_17_Click ()
310 On Error GoTo Err_Tag_17_Click
311
312     Dim DocName As String
313
314     DocName = "List17"
315     DoCmd OpenReport DocName, A_PREVIEW
316
317 Exit_Tag_17_Click:
318     Exit Sub
319
320 Err_Tag_17_Click:
321     MsgBox Error$
322     Resume Exit_Tag_17_Click
323
324 End Sub
325
326 Sub Tag_18_Click ()
327 On Error GoTo Err_Tag_18_Click
328
329     Dim DocName As String
330
331     DocName = "List18"
332     DoCmd OpenReport DocName, A_PREVIEW
333
```

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```
334 Exit_Tag_18_Click:
335     Exit Sub
336
337 Err_Tag_18_Click:
338     MsgBox Error$
339     Resume Exit_Tag_18_Click
340
341 End Sub
342
343 Sub Tag_19_Click ()
344 On Error GoTo Err_Tag_19_Click
345
346     Dim DocName As String
347
348     DocName = "List19"
349     DoCmd OpenReport DocName, A_PREVIEW
350
351 Exit_Tag_19_Click:
352     Exit Sub
353
354 Err_Tag_19_Click:
355     MsgBox Error$
356     Resume Exit_Tag_19_Click
357
358 End Sub
359
360 Sub Tag_2_Click ()
361 On Error GoTo Err_Tag_2_Click
362
363     Dim DocName As String
364
365     DocName = "List02"
366     DoCmd OpenReport DocName, A_PREVIEW
367
368 Exit_Tag_2_Click:
369     Exit Sub
370
371 Err_Tag_2_Click:
372     MsgBox Error$
373     Resume Exit_Tag_2_Click
374
375 End Sub
376
377 Sub Tag_20_Click ()
378 On Error GoTo Err_Tag_20_Click
379
380     Dim DocName As String
381
382     DocName = "List20"
383     DoCmd OpenReport DocName, A_PREVIEW
384
```

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```
385 Exit_Tag_20_Click:
386     Exit Sub
387
388 Err_Tag_20_Click:
389     MsgBox Error$
390     Resume Exit_Tag_20_Click
391
392 End Sub
393
394 Sub Tag_21_Click ()
395 On Error GoTo Err_Tag_21_Click
396
397     Dim DocName As String
398
399     DocName = "List21"
400     DoCmd OpenReport DocName, A_PREVIEW
401
402 Exit_Tag_21_Click:
403     Exit Sub
404
405 Err_Tag_21_Click:
406     MsgBox Error$
407     Resume Exit_Tag_21_Click
408
409 End Sub
410
411 Sub Tag_22_Click ()
412 On Error GoTo Err_Tag_22_Click
413
414     Dim DocName As String
415
416     DocName = "List22"
417     DoCmd OpenReport DocName, A_PREVIEW
418
419 Exit_Tag_22_Click:
420     Exit Sub
421
422 Err_Tag_22_Click:
423     MsgBox Error$
424     Resume Exit_Tag_22_Click
425
426 End Sub
427
428 Sub Tag_23_Click ()
429 On Error GoTo Err_Tag_23_Click
430
431     Dim DocName As String
432
433     DocName = "List23"
434     DoCmd OpenReport DocName, A_PREVIEW
435
```


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```
436 Exit_Tag_23_Click:
437     Exit Sub
438
439 Err_Tag_23_Click:
440     MsgBox Error$
441     Resume Exit_Tag_23_Click
442
443 End Sub
444
445 Sub Tag_24_Click ()
446 On Error GoTo Err_Tag_24_Click
447
448     Dim DocName As String
449
450     DocName = "List24"
451     DoCmd OpenReport DocName, A_PREVIEW
452
453 Exit_Tag_24_Click:
454     Exit Sub
455
456 Err_Tag_24_Click:
457     MsgBox Error$
458     Resume Exit_Tag_24_Click
459
460 End Sub
461
462 Sub Tag_3_Click ()
463 On Error GoTo Err_Tag_3_Click
464
465     Dim DocName As String
466
467     DocName = "List03"
468     DoCmd OpenReport DocName, A_PREVIEW
469
470 Exit_Tag_3_Click:
471     Exit Sub
472
473 Err_Tag_3_Click:
474     MsgBox Error$
475     Resume Exit_Tag_3_Click
476
477 End Sub
478
479 Sub Tag_4_Click ()
480 On Error GoTo Err_Tag_4_Click
481
482     Dim DocName As String
483
484     DocName = "List04"
485     DoCmd OpenReport DocName, A_PREVIEW
486
```

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```
487 Exit_Tag_4_Click:
488     Exit Sub
489
490 Err_Tag_4_Click:
491     MsgBox Error$
492     Resume Exit_Tag_4_Click
493
494 End Sub
495
496 Sub Tag_5_Click ()
497 On Error GoTo Err_Tag_5_Click
498
499     Dim DocName As String
500
501     DocName = "List05"
502     DoCmd OpenReport DocName, A_PREVIEW
503
504 Exit_Tag_5_Click:
505     Exit Sub
506
507 Err_Tag_5_Click:
508     MsgBox Error$
509     Resume Exit_Tag_5_Click
510
511 End Sub
512
513 Sub Tag_6_Click ()
514 On Error GoTo Err_Tag_6_Click
515
516     Dim DocName As String
517
518     DocName = "List06"
519     DoCmd OpenReport DocName, A_PREVIEW
520
521 Exit_Tag_6_Click:
522     Exit Sub
523
524 Err_Tag_6_Click:
525     MsgBox Error$
526     Resume Exit_Tag_6_Click
527
528 End Sub
529
530 Sub Tag_7_Click ()
531 On Error GoTo Err_Tag_7_Click
532
533     Dim DocName As String
534
535     DocName = "List07"
536     DoCmd OpenReport DocName, A_PREVIEW
537
```

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```
538 Exit_Tag_7_Click:
539     Exit Sub
540
541 Err_Tag_7_Click:
542     MsgBox Error$
543     Resume Exit_Tag_7_Click
544
545 End Sub
546
547 Sub Tag_8_Click ()
548 On Error GoTo Err_Tag_8_Click
549
550     Dim DocName As String
551
552     DocName = "List08"
553     DoCmd OpenReport DocName, A_PREVIEW
554
555 Exit_Tag_8_Click:
556     Exit Sub
557
558 Err_Tag_8_Click:
559     MsgBox Error$
560     Resume Exit_Tag_8_Click
561
562 End Sub
563
564 Sub Tag_9_Click ()
565 On Error GoTo Err_Tag_9_Click
566
567     Dim DocName As String
568
569     DocName = "List09"
570     DoCmd OpenReport DocName, A_PREVIEW
571
572 Exit_Tag_9_Click:
573     Exit Sub
574
575 Err_Tag_9_Click:
576     MsgBox Error$
577     Resume Exit_Tag_9_Click
578
579 End Sub
580
```

CDINFO.DAT

An ASCII file used by Paper Chaser when CDs are used. It is set up in the following manner.

"Yes" implied the case uses CDs. 2 is the Length of the image filename prefix. These are both on the first line. Each disk is given its own line. The first number is the disk number, the second is the starting document number and the third is the ending document number for the CD. The numbers are separated by commas. CDINFO.DAT must reside in the case directory.

EXAMPLE

```
YES, 2
1, 00001, 05000
2, 05001, 05799
```

```
'Option Explicit
'DefInt A-Z
```

```
'Allows program to float on top of all programs
```

```
'Private Declare Function SetWindowPos Lib "user" (ByVal h%, ByVal hb%,
  ByVal X%, ByVal Y%, ByVal cx%, ByVal cy%, ByVal f%) As Integer
```

```
'reads ini files
```

```
Private Declare Function GetPrivateProfileString Lib "Kernel" (ByVal lp
  ApplicationName As String, lpKeyName As Any, ByVal lpDefault As String,
  ByVal lpReturnedString As String, ByVal nSize As Integer, ByVal lpFile
  Name As String) As Integer
```

```
Dim ms_FileSavePath$
```

```
Dim ms_buttonWithFocus$
```

```
Dim ms_DataBaseName$
```

```
Const OFN_HIDEREADONLY = &H4&
```

```
Private Sub buttonToggle()
```

```
  On Error Resume Next
```

```
  cmdSave.Enabled = Not cmdSave.Enabled
```

```
  cmdScan.Enabled = Not cmdScan.Enabled
```

```
  cmdScan90.Enabled = Not cmdScan90.Enabled
```

```
  cmdScanSave.Enabled = Not cmdScanSave.Enabled
```

```
  cmdSetUp.Enabled = Not cmdSetUp.Enabled
```

```
  'reset the focus back to the correct button
```

```
  Select Case ms_buttonWithFocus$
```

```
    Case "cmdScan"
```

```
      cmdScan.SetFocus
```

```
    Case "cmdScan90"
```

```
      cmdScan90.SetFocus
```

```
    Case "cmdScanSave"
```

```
      cmdScanSave.SetFocus
```

```
  End Select
```

```
End Sub
```

```
Private Sub chkSaveToDataBase_Click()
```

```
  If chkSaveToDataBase.Value = 1 Then
```

```
    Call pathInfo 'gets the DB and paths to save images
```

```
  Else
```

```
    ms_FileSavePath$ = App.Path 'save images to the default path
```

```
    ' add '\' to path if needed
```

```
    If Right(ms_FileSavePath$, 1) <> "\" Then ms_FileSavePath$ = ms_
  FileSavePath$ & "\"
```

```
  End If
```

```
End Sub
```

```
Private Sub cmdSave_Click()
```

```
  On Error GoTo SaveError
```

```
  If wmObject.PageCount = 0 Then Exit Sub
```

```
  Dim liPages%
```

```
  Call buttonToggle
```

```

Screen.MousePointer = 11
Load frmDisplay
frmDisplay.Show
If chkAutoDeskew.Value = 1 Then Call DeskewImage
frmDisplay.Hide
Unload frmDisplay
liPages% = wmObject.PageCount
wmObject.DocumentName = txtPrefix.Text & txtSufix.Text
'[SaveAsLocal filename, fpage, cpages, fOverwrite]
wmObject.SaveAsLocal ms_FileSavePath$ & txtPrefix.Text & txtSufix.Te
xt & ".tif", 1, liPages%, 1
If chkSaveToDataBase.Value = 1 Then Call dbWrite
Call numbersUpdate
' Close the current document, even if it has been modified but not s
aved.
wmObject.CloseDoc
Screen.MousePointer = 0
Call buttonToggle
Exit Sub
SaveError:
MsgBox "Error# " & Err.Number & " " & Err.Description
Resume Next
End Sub

```

```

Private Sub cmdScan_Click()
ms_buttonWithFocus$ = "cmdScan"
Call buttonToggle
Dim liPages%
liPages% = wmObject.PageCount
liPages% = liPages% + 1
'[Scan fpage, incrPage, maxPages, flags]
wmObject.Scan liPages%, 1, -1, 0
txtBatesEnum.Text = Format(Int(txtBatesBNum.Text) + wmObject.PageCou
nt - 1, "0000000")
Call buttonToggle
End Sub

```

```

Private Sub cmdScan90_Click()
ms_buttonWithFocus$ = "cmdScan90"
Call buttonToggle
Dim liPages%
liPages% = wmObject.PageCount
liPages% = liPages% + 1
'[Scan fpage, incrPage, maxPages, flags]
wmObject.Scan liPages%, 1, -1, 1
txtBatesEnum.Text = Format(Int(txtBatesBNum.Text) + wmObject.PageCou
nt - 1, "0000000")
Call buttonToggle
End Sub

```

```

Private Sub cmdScanSave_Click()
    ms_buttonWithFocus$ = "cmdScanSave"
    Call buttonToggle
    Screen.MousePointer = 11
    '[Scan fpage, incrPage, maxPages, flags]
    wmObject.Scan 1, 1, 1, 0
    txtBatesENum.Text = txtBatesBNum.Text
    '[SaveAsLocal filename, fpage, cpages, fOverwrite]
    If chkAutoDeskew.Value = 1 Then Call DeskewImage
    wmObject.DocumentName = txtPrefix.Text & txtSufix.Text
    wmObject.SaveAsLocal ms_FileSavePath$ & txtPrefix.Text & txtSufix.Te
xt & ".tif", 1, 1, 1
    If chkSaveToDataBase.Value = 1 Then Call dbWrite
    Call numbersUpdate
    ' Close the current document, even if it has been modified but not s
aved.
    wmObject.CloseDoc
    Screen.MousePointer = 0
    Call buttonToggle
Exit Sub
SaveError:
    MsgBox "Error# " & Err.Number & " " & Err.Description
    Resume Next
End Sub

Private Sub cmdSetup_Click()
    ' Display the Scanner Setting dialog box
    wmObject.ScanSetup
    Call settingsGet
End Sub

Private Sub dbWrite()
On Error GoTo DBError
    ' Open "c:\TESTFILE.TXT" For Append As 1 ' Open file for output.
    ' Print #1, txtPrefix.Text & txtSufix.Text & ", "; txtPrefix.Text & t
xtSufix.Text & ".tif, "; txtBatesPre.Text & txtBatesBNum.Text & ", "; t
xtBatesPre.Text & txtBatesENum.Text ' Write data to file.
    ' Close #1
    '*****
    'check the DOC NUMBER from Document Info
    'to see if it has already been used
    Set gdb = OpenDatabase(ms_DataBaseName$)
    strSQL = "SELECT * FROM [Document Info]"
    Set mdsChaser = gdb.OpenRecordset(strSQL, dbOpenDynaset)
    mdsChaser.FindFirst "[Doc Number] = " & "'" & txtSufix.Text & "'"
    If mdsChaser.NoMatch Then
        mdsChaser.AddNew 'write data to database
    Else
        mdsChaser.Edit 'overwrite existing data
    End If
    mdsChaser![Doc Number] = txtSufix.Text
    mdsChaser![Entry Info] = txtPrefix.Text & txtSufix.Text & ".tif"

```

```

mdsChaser![Beg Bates #] = txtBatesPre.Text & txtBatesBNum.Text
mdsChaser![End Bates #] = txtBatesPre.Text & txtBatesENum.Text
mdsChaser.Update
mdsChaser.Close
Exit Sub

DBError:
MsgBox "Error# " & Err.Number & " " & Err.Description
chkSaveToDataBase.Value = 0
ms_FileSavePath$ = App.Path
Exit Sub
End Sub

Private Sub DeskewImage()
On Error Resume Next
If chkAutoDeskew.Value = 0 Then Exit Sub
Dim docPages%
Dim curPage%
docPages% = wmObject.PageCount
For curPage% = 1 To docPages%
    frmDisplay.lblPages.Caption = "Deskewing page " & curPage% & " of "
    & docPages% & "."
    frmDisplay.pnlPages.FloodPercent = curPage% / docPages% * 100
    wmObject.PageDeskew curPage%
    DoEvents
Next curPage%
frmDisplay.lblPages.Caption = "Saving TIFF file."
End Sub

Private Sub Form_Load()
'Dim li_OnTop%
'li_OnTop% = SetWindowPos(Me.hWnd, -1, 0, 0, 0, 0, 1)
' Create a Watermark Professional object
Me.Left = 0
Me.Top = 0
Set wmObject = CreateObject("Watermark.Automation")
wmObject.ShowWindow 2 ' Show Watermark Window
ms_FileSavePath$ = App.Path
' add '\' to path if needed
If Right(ms_FileSavePath$, 1) <> "\" Then ms_FileSavePath$ = ms_Fil
eSavePath$ & "\"
Call settingsGet
End Sub

Private Sub Form_Unload(Cancel As Integer)
' Exit Watermark, even if the current document has been modified but
not saved.
' Setting wmObject to Nothing causes Visual Basic to unload Watermar
k from memory
wmObject.Exit
Set wmObject = Nothing
Set mdsChaser = Nothing
End Sub

```



```

Private Sub settingsGet()
    Dim sFileName$
    Dim sSection$
    Dim sKeyName$
    Dim sDefault$
    Dim sReturn$
    Dim iReturnSize%
    Dim iReturn%
    sSection$ = "FUJIGINE"
    sKeyName$ = "PageSize"
    sDefault$ = ""
    sReturn$ = Space$(25)
    iReturnSize% = 25
    sFileName$ = "C:\windows\wmpo.ini"
    iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyName$,
    sDefault$, sReturn$, iReturnSize%, ByVal sFileName$)
    Me.Caption = "Luke's WaterMark Scan Utility" & sReturn$
End Sub

```

```

Public Sub pathInfo()
    On Error GoTo PathError
    Dim mdsPathInfo As Recordset
    Dim strSQL$
    'choose a database with common dialog
    CommonDialog1.CancelError = True
    CommonDialog1.DialogTitle = "Select Database"
    CommonDialog1.Flags = OFN_HIDEREADONLY
    CommonDialog1.Filter = "Database files | *.mdb"
    CommonDialog1.FilterIndex = 1
    CommonDialog1.Action = 1
    ms_DataBaseName$ = CommonDialog1.filename
    'check the database for the path of the images files
    Set gdb = OpenDatabase(ms_DataBaseName$)
    strSQL = "SELECT * FROM Preferences"
    Set mdsPathInfo = gdb.OpenRecordset(strSQL, dbOpenDynaset)
    'set the file save path to it
    ms_FileSavePath$ = mdsPathInfo!ImagePath
    ' add '\' to path if needed
    If Right(ms_FileSavePath$, 1) <> "\" Then ms_FileSavePath$ = ms_Fil
eSavePath$ & "\"
    mdsPathInfo.Close
    Set mdsPathInfo = Nothing
    Exit Sub
PathError:
    If Err = 32755 Then ' cancel button was pressed
        chkSaveToDataBase.Value = 0
        ms_FileSavePath$ = App.Path
    Exit Sub

```

```
ElseIf Err = 3078 Then
    chkSaveToDataBase.Value = 0
    MsgBox "The database choosen is either not a PaperChaser database
, or it is corrupted"
    ms_FileSavePath$ = App.Path
    Exit Sub
Else '
    MsgBox "Error# " & Err.Number & " " & Err.Description
    chkSaveToDataBase.Value = 0
    ms_FileSavePath$ = App.Path
    Exit Sub
End If
End Sub

Public Sub numbersUpdate()
    txtSufix.Text = Format(Int(txtSufix.Text) + 1, "00000")
    txtBatesBNum.Text = Format(Int(txtBatesENum.Text) + 1, "0000000")
    txtBatesENum.Text = Format(Int(txtBatesENum.Text) + 1, "0000000")
End Sub
```

```
frmDisplay - 1
Option Explicit
Private Sub Form_Load()
    Me.Top = (Screen.Height - Me.Height) / 2
    Me.Left = (Screen.Width - Me.Width) / 2
End Sub
```

```

frmWMScan - 1

'Option Explicit
'DefInt A-Z

'Allows program to float on top of all programs
'Private Declare Function SetWindowPos Lib "user" (ByVal h%, ByVal hbt, ByVal X%, ByVal Y%, ByVa
l cxt, ByVal cyt, ByVal ft) As Integer
'reads ini files
Private Declare Function GetPrivateProfileString Lib "Kernel" (ByVal lpApplicationName As String
, lpKeyName As Any, ByVal lpDefault As String, ByVal lpReturnedString As String, ByVal nSize As
Integer, ByVal lpFileName As String) As Integer

Dim ms_FileSavePaths$
Dim ms_buttonWithFocus$
Dim ms_DataBaseNames$
Const OFN_HIDERADONLY = &H4&

Private Sub buttonToggle()
    On Error Resume Next
    cmdSave.Enabled = Not cmdSave.Enabled
    cmdScan.Enabled = Not cmdScan.Enabled
    cmdScan90.Enabled = Not cmdScan90.Enabled
    cmdScanSave.Enabled = Not cmdScanSave.Enabled
    cmdSetUp.Enabled = Not cmdSetUp.Enabled
    'reset the focus back to the correct button
    Select Case ms_buttonWithFocus$
        Case "cmdScan"
            cmdScan.SetFocus
        Case "cmdScan90"
            cmdScan90.SetFocus
        Case "cmdScanSave"
            cmdScanSave.SetFocus
    End Select
End Sub

Private Sub chkSaveToDataBase_Click()
    If chkSaveToDataBase.Value = 1 Then
        Call pathInfo 'gets the DB and paths to save images
    Else
        ms_FileSavePaths = App.Path 'save images to the default path
        ' add '\' to path if needed
        If Right(ms_FileSavePaths, 1) <> "\" Then ms_FileSavePaths = ms_FileSavePaths & "\"
    End If
End Sub

Private Sub cmdSave_Click()
    On Error GoTo SaveError
    If wmObject.PageCount = 0 Then Exit Sub
    Dim liPages!
    Call buttonToggle
    Screen.MousePointer = 11
    Load frmDisplay
    frmDisplay.Show
    If chkAutoDeskew.Value = 1 Then Call DeskewImage
    frmDisplay.Hide
    Unload frmDisplay
    liPages = wmObject.PageCount
    wmObject.DocumentName = txtPrefix.Text & txtSuffix.Text
    '[SaveAsLocal filename, fpage, cpages, fOverwrite]
    wmObject.SaveAsLocal ms_FileSavePaths & txtPrefix.Text & txtSuffix.Text & ".tif", 1, liPages,
1
    If chkSaveToDataBase.Value = 1 Then Call dbWrite
    Call numbersUpdate
    ' Close the current document, even if it has been modified but not saved.
    wmObject.CloseDoc
    Screen.MousePointer = 0
    Call buttonToggle
Exit Sub
SaveError:

```

```

    MsgBox "Error# " & Err.Number & " " & Err.Description
    Resume Next
End Sub

```

```

Private Sub cmdScan_Click()
    ms_buttonWithFocus$ = "cmdScan"
    Call buttonToggle
    Dim liPages%
    liPages% = wmObject.PageCount
    liPages% = liPages% + 1
    '[Scan fpage, incrPage, maxPages, flags]
    wmObject.Scan liPages%, 1, -1, 0
    'txtBatesENum.Text = Format(Int(txtBatesBNum.Text) + wmObject.PageCount - 1, "0000000")
    Call buttonToggle
End Sub

```

```

Private Sub cmdScan90_Click()
    ms_buttonWithFocus$ = "cmdScan90"
    Call buttonToggle
    Dim liPages%
    liPages% = wmObject.PageCount
    liPages% = liPages% + 1
    '[Scan fpage, incrPage, maxPages, flags]
    wmObject.Scan liPages%, 1, -1, 1
    'txtBatesENum.Text = Format(Int(txtBatesBNum.Text) + wmObject.PageCount - 1, "0000000")
    Call buttonToggle
End Sub

```

```

Private Sub cmdScanSave_Click()
    ms_buttonWithFocus$ = "cmdScanSave"
    Call buttonToggle
    Screen.MousePointer = 11
    '[Scan fpage, incrPage, maxPages, flags]
    wmObject.Scan 1, 1, 1, 0
    'txtBatesENum.Text = txtBatesBNum.Text
    '[SaveAsLocal filename, fpage, cpages, fOverwrite]
    If chkAutoDeskew.Value = 1 Then Call DeskewImage
    wmObject.DocumentName = txtPrefix.Text & txtSufix.Text
    wmObject.SaveAsLocal ms_FileSavePath$ & txtPrefix.Text & txtSufix.Text & ".tif", 1, 1, 1
    If chkSaveToDataBase.Value = 1 Then Call dbWrite
    Call numbersUpdate
    ' Close the current document, even if it has been modified but not saved.
    wmObject.CloseDoc
    Screen.MousePointer = 0
    Call buttonToggle
Exit Sub
SaveError:
    MsgBox "Error# " & Err.Number & " " & Err.Description
    Resume Next
End Sub

```

```

Private Sub cmdSetup_Click()
    ' Display the Scanner Setting dialog box
    wmObject.ScanSetup
    Call settingsGet
End Sub

```

```

Private Sub dbWrite()
    On Error GoTo DBError
    Open "c:\TESTFILE.TXT" For Append As 1 ' Open file for output.
    Print #1, txtPrefix.Text & txtSufix.Text & ", "; txtPrefix.Text & txtSufix.Text & ".tif, ";
    txtBatesPre.Text & txtBatesBNum.Text & ", "; txtBatesPre.Text & txtBatesENum.Text ' Write data t
    o file.
    Close #1
    '*****
    'check the DOC NUMBER from Document Info
    'to see if it has already been used

```

frmWMScan - 3

```

Set gdb = OpenDatabase(ms_DataBaseName$)
strSQL = "SELECT * FROM [Document Info]"
Set mdsChaser = gdb.OpenRecordset(strSQL, dbOpenDynaset)
mdsChaser.FindFirst "[Doc Number] = " & "'" & txtSufix.Text & "'"
If mdsChaser.NoMatch Then
    mdsChaser.AddNew 'write data to database
Else
    mdsChaser.Edit 'overwrite existing data
End If
mdsChaser![Doc Number] = txtSufix.Text
mdsChaser![Entry Info] = txtPrefix.Text & txtSufix.Text & ".tif"
' mdsChaser![Beg Bates #] = txtBatesPre.Text & txtBatesBNum.Text
' mdsChaser![End Bates #] = txtBatesPre.Text & txtBatesENum.Text
mdsChaser![Description] = txtDescription.Text
mdsChaser.Update
mdsChaser.Close
Exit Sub
DBError:
MsgBox "Error# " & Err.Number & " " & Err.Description
chkSaveToDataBase.Value = 0
ms_FileSavePath$ = App.Path
Exit Sub
End Sub

Private Sub DeskewImage()
On Error Resume Next
If chkAutoDeskew.Value = 0 Then Exit Sub
Dim docPages%
Dim curPage%
docPages = wmObject.PageCount
For curPage = 1 To docPages
    frmDisplay.lblPages.Caption = "Deskewing page " & curPage & " of " & docPages & "."
    frmDisplay.pnlPages.FloodPercent = curPage / docPages * 100
    wmObject.PageDeskew curPage
    DoEvents
Next curPage
frmDisplay.lblPages.Caption = "Saving TIFF file."
End Sub

Private Sub Form_Load()
Dim li_OnTop%
li_OnTop = SetWindowPos(Me.hWnd, -1, 0, 0, 0, 0, 1)
' Create a Watermark Professional object
Me.Left = 0
Me.Top = 0
Set wmObject = CreateObject("Watermark.Automation")
wmObject.ShowWindow 2 ' Show Watermark Window
ms_FileSavePath$ = App.Path
' add '\' to path if needed
If Right(ms_FileSavePath$, 1) <> "\" Then ms_FileSavePath$ = ms_FileSavePath$ & "\"
Call settingsGet
End Sub

Private Sub Form_Unload(Cancel As Integer)
' Exit Watermark, even if the current document has been modified but not saved.
' Setting wmObject to Nothing causes Visual Basic to unload Watermark from memory
wmObject.Exit
Set wmObject = Nothing
Set mdsChaser = Nothing
End Sub

Private Sub settingsGet()
Dim sFileName$
Dim sSection$
Dim sKeyName$
Dim sDefault$
Dim sReturn$
Dim iReturnSize%
Dim iReturn%

```

```

sSection$ = "FUJIGINE"
sKeyName$ = "PageSize"
sDefault$ = ""
sReturn$ = Space$(25)
iReturnSize% = 25
sFileName$ = "C:\windows\wmpo.ini"
iReturn% = GetPrivateProfileString(ByVal sSection$, ByVal sKeyName$, sDefault$, sReturn$, iRe
turnSize%, ByVal sFileName$)
Me.Caption = "Luke's WaterMark Scan Utility" & sReturn$
End Sub

```

```

Public Sub pathInfo()
On Error GoTo PathError
Dim mdsPathInfo As Recordset
Dim strSQL$
'choose a database with common dialog
CommonDialog1.CancelError = True
CommonDialog1.DialogTitle = "Select Database"
CommonDialog1.Flags = OFN_HIDEREADONLY
CommonDialog1.Filter = "Database files | *.mdb"
CommonDialog1.FilterIndex = 1
CommonDialog1.Action = 1
ms_DataBaseName$ = CommonDialog1.filename
'check the database for the path of the images files
Set gdb = OpenDatabase(ms_DataBaseName$)
strSQL = "SELECT * FROM Preferences"
Set mdsPathInfo = gdb.OpenRecordset(strSQL, dbOpenDynaset)
'set the file save path to it
ms_FileSavePath$ = mdsPathInfo!ImagePath
' add '\' to path if needed
If Right(ms_FileSavePath$, 1) <> "\" Then ms_FileSavePath$ = ms_FileSavePath$ & "\"
mdsPathInfo.Close
Set mdsPathInfo = Nothing
Exit Sub
PathError:
If Err = 32755 Then ' cancel button was pressed
chkSaveToDataBase.Value = 0
ms_FileSavePath$ = App.Path
Exit Sub
ElseIf Err = 3078 Then
chkSaveToDataBase.Value = 0
MsgBox "The database choosen is either not a PaperChaser database, or it is corrupted"
ms_FileSavePath$ = App.Path
Exit Sub
Else '
MsgBox "Error# " & Err.Number & " " & Err.Description
chkSaveToDataBase.Value = 0
ms_FileSavePath$ = App.Path
Exit Sub
End If
End Sub

Public Sub numbersUpdate()
txtSuffix.Text = Format(Int(txtSufix.Text) + 1, "00000")
'txtBatesBNum.Text = Format(Int(txtBatesEnum.Text) + 1, "00000000")
'txtBatesEnum.Text = Format(Int(txtBatesEnum.Text) + 1, "00000000")
End Sub

```

WMSCAN1 - 1

Option Explicit

Global wmObject As Object ' The object handle to Watermark

frmDisplay - 1

Option Explicit

Private Sub Form_Load()

 Me.Top = (Screen.Height - Me.Height) / 2

 Me.Left = (Screen.Width - Me.Width) / 2

End Sub

frmOCR - 1

```

' Copyright (C) 1995,1996 Luke Spence
' Last modified on 05/01/96
Option Explicit
DefInt A-Z
Private Declare Function FindWindow Lib "user" (ByVal lpClassName As Any, ByVal lpCaption As Any)
As Integer
'Declare Sub SetCursorPos Lib "User" (ByVal x As Integer, ByVal y As Integer)
'There's no need to reset mouse position with OmniPage Lite
Dim SetUp
Dim programCaptions$
Dim programPaths$
Dim FName$
Dim DocFName$
Dim filePath$
Dim fileToGet$
Dim numOfFile$
Dim x%
Dim numSelected%
Dim percentDone%
Dim procCount%
Dim test%

Private Sub cmdExit_Click()
    End
End Sub

Private Sub cmdProcess_Click()
    Dim iLoop%
    On Error Resume Next
    If File1.filename = "" Then
        MsgBox "Please choose a file.", 0, "No file selected."
        Exit Sub
    End If
    If Right(File1.Path, 1) = "\" Then
        filePath = File1.Path
    Else
        filePath = File1.Path & "\"
    End If
    numOfFile = File1.ListCount
    For iLoop = 0 To numOfFile - 1
        If File1.Selected(iLoop) Then numSelected = numSelected + 1
    Next iLoop
    percentDone = 100 \ numSelected
    For iLoop = 0 To numOfFile - 1
        fileToGet = File1.List(iLoop)
        If File1.Selected(iLoop) Then
            FName = filePath & fileToGet
            DocFName = Left$(fileToGet, Len(fileToGet) - 3)
            procCount = procCount + 1
            pnlDisplay.Caption = "Processing " & procCount & " of " & numSelected
            Call Process
            DoEvents
            pnlPercentComplete.FloodPercent = pnlPercentComplete.FloodPercent + percentDone
        End If
    Next iLoop
    pnlDisplay.Caption = "Finished processing at " & Time
    pnlPercentComplete.FloodPercent = 0
    procCount = 0
    numSelected = 0
    File1.Refresh
End Sub

Private Sub Dir1_Change()
    File1.Path = Dir1.Path
End Sub

Private Sub Drive1_Change()
    On Error Resume Next

```

frmOCR - 2

```
Dir1.Path = Drive1.Drive
End Sub
```

```
Private Sub Form_Load()
    On Error Resume Next
    Top = 100
    Left = Screen.Width - frmOCR.Width - 100
    Call infoGet
    x% = Shell(programPath$, 4)
    frmOCR.Show
    Dir1.Path = "C:\\"
End Sub
```

```
Private Sub Form_MouseMove(Button As Integer, Shift As Integer, x As Single, y As Single)
    x = 1
    y = 1
End Sub
```

```
Private Sub infoGet()
    On Error GoTo iniError
    Open "lukesocr.ini" For Input As #1
    Line Input #1, programCaption$ ' Get complete line.
    Line Input #1, programPath$ ' Get complete line.
    Close #1
    Exit Sub
iniError:
    MsgBox "Error retrieving information from 'lukesocr.ini'"
End Sub
```

```
Private Sub mouseHome()
    ' need a routine to move mouse pointer to bottom corner
    ' of the screen so that WordScan title bar doesn't change
    ' if it does VB program can't recognize WordScan program
    SetCursorPos Screen.Width, Screen.Height
End Sub
```

```
Private Sub Process()
    AppActivate programCaption$
    x% = Shell(programPath$ & " " & FName$, 4)
    Call mouseHome
    SendKeys "%F", True 'ALT F
    SendKeys "P", True 'R
    SendKeys "A", True 'A
    test% = 0
    Do While test% = 0
        x% = DoEvents()
        test% = FindWindow(0%, "Save As")
    Loop
    SendKeys DocFName$
    SendKeys "{Enter}"
    test% = 0
    Call mouseHome
    SendKeys "{Enter}" ' to overwrite if file already exists
    Do While test% = 0
        x% = DoEvents()
        test% = FindWindow(0%, programCaption$)
    Loop
    AppActivate "Luke's Automated OCR'ing Utility"
End Sub
```

```
frmDepoView - 1
```

```
Option Explicit
DefInt A-Z
'''arrays
Dim page() As Long
Dim finds() As Integer
'''long
Dim position&
'''integers
Dim pageNumber%
Dim numOfPages%
Dim startPosition%
Dim f%
Dim foundcount%
Dim FirstPageEOPMarker%
Dim iPageNumShown%
'''strings
Dim pathOfDepos$
Dim fileSource$
Dim tempLocations$
Dim new_Line$
Dim endOfPages$
Dim search$
Dim temp$
Dim nameOfDeposed$

Private Sub buttonReset()
On Error Resume Next
' reset page number buttons
Select Case pageNumber%
Case 0 ' no pages loaded
cmdPagePrev.Enabled = False
cmdPageFirst.Enabled = False
cmdPageNext.Enabled = False
cmdPageLast.Enabled = False
Case 1 ' first page
cmdPagePrev.Enabled = False
cmdPageFirst.Enabled = False
cmdPageNext.Enabled = True
cmdPageLast.Enabled = True
Case numOfPages ' last page
cmdPagePrev.Enabled = True
cmdPageFirst.Enabled = True
cmdPageNext.Enabled = False
cmdPageLast.Enabled = False
Case Else ' all other pages
cmdPagePrev.Enabled = True
cmdPageFirst.Enabled = True
cmdPageNext.Enabled = True
cmdPageLast.Enabled = True
End Select
Select Case numOfPages% ' if only one page
Case 1
cmdPageNext.Enabled = False
cmdPageLast.Enabled = False
End Select
' reset find word buttons
Select Case foundcount%
Case 0 ' no words found
cmdWordPrev.Enabled = False
cmdWordFirst.Enabled = False
cmdWordNext.Enabled = False
cmdWordLast.Enabled = False
Case 1 ' only 1 occurrence of word
cmdWordPrev.Enabled = False
cmdWordFirst.Enabled = False
cmdWordNext.Enabled = False
cmdWordLast.Enabled = False
Case Else ' more than one occurrence
Select Case finds(f%)
```

frmDepoView - 2

```

        Case finds(1) ' first occurrence of word
            cmdWordPrev.Enabled = False
            cmdWordFirst.Enabled = False
            cmdWordNext.Enabled = True
            cmdWordLast.Enabled = True
        Case finds(foundcount%) ' last occurrence of word
            cmdWordPrev.Enabled = True
            cmdWordFirst.Enabled = True
            cmdWordNext.Enabled = False
            cmdWordLast.Enabled = False
        Case Else ' all other words
            cmdWordPrev.Enabled = True
            cmdWordFirst.Enabled = True
            cmdWordNext.Enabled = True
            cmdWordLast.Enabled = True
        End Select
    End Select
    'reset word buttons if no depo is loaded
    Select Case fileSources
    Case ""
        cmdCopy.Enabled = False
        cmdWordFind.Enabled = False
        cmdWordPrev.Enabled = False
        cmdWordFirst.Enabled = False
        cmdWordNext.Enabled = False
        cmdWordLast.Enabled = False
    Case Else
        cmdCopy.Enabled = True
        cmdWordFind.Enabled = True
    End Select
End Sub

Private Sub cmdCopy_Click()
    Dim cbDepoInfo$
    cbDepoInfo$ = "From the deposition of " & nameOfDeposed$ & ", page # " & iPageNumShown & new
    _Line$
    Clipboard.Clear
    Clipboard.SetText new_Line$ & cbDepoInfo$ & txtCopyPaste.SelText & new_Line$
End Sub

Private Sub cmdPageFirst_Click()
    On Error Resume Next
    pageNumber = 1
    Call pageDisplay
End Sub

Private Sub cmdPageLast_Click()
    On Error Resume Next
    pageNumber = numOfPages
    Call pageDisplay
End Sub

Private Sub cmdPageNext_Click()
    On Error Resume Next
    pageNumber = pageNumber + 1
    Call pageDisplay
End Sub

Private Sub cmdPagePrev_Click()
    On Error Resume Next
    pageNumber = pageNumber - 1
    Call pageDisplay
End Sub

Private Sub cmdWordFind_Click()
    On Error Resume Next
    Dim pageDisplayed%
    pageDisplayed = pageNumber
    pctDisplay.Visible = True

```

frmDepoView - 3

```

search$ = InputBox$("Please enter the word you wish to search for.", "Word Search", "")
If search$ = "" Then Exit Sub
' reset variables
f% = 0
foundcount% = 0
Call wordFind
If f% < 1 Then
    pageNumber% = pageDisplayed%
    MsgBox "The word '" & search$ & "' was not found.", 0, "Not Found."
    Exit Sub
End If
pageNumber% = finds(f%)
Call pageDisplay
End Sub

Private Sub cmdWordFirst_Click()
    On Error Resume Next
    f% = 1
    pageNumber% = finds(f%)
    Call pageDisplay
End Sub

Private Sub cmdWordLast_Click()
    On Error Resume Next
    f% = foundcount%
    pageNumber% = finds(f%)
    Call pageDisplay
End Sub

Private Sub cmdWordNext_Click()
    On Error Resume Next
    f% = f% + 1
    pageNumber% = finds(f%)
    Call pageDisplay
End Sub

Private Sub cmdWordPrev_Click()
    On Error Resume Next
    f% = f% - 1
    pageNumber% = finds(f%)
    Call pageDisplay
End Sub

Private Sub depositedName()
    Dim firstPage$
    Dim posMarker%
    Dim posEOL1%
    Dim posEOL2%
    Dim posEOL3%
    temp$ = ""
    Open fileSource$ For Binary Access Read As #1
    Seek #1, 1
    firstPage$ = Input$(1096, 1)
    Close #1
    posMarker% = InStr(1, firstPage$, "deposition of", 1)
    posEOL1% = InStr(posMarker%, firstPage$, new_Line$)
    posEOL2% = InStr(posEOL1% + 1, firstPage$, new_Line$)
    posEOL3% = InStr(posEOL2% + 1, firstPage$, new_Line$)
    temp$ = Mid$(firstPage$, (posMarker% + 13), (posEOL1% - (posMarker% + 13)))
    If Len(Trim(temp$)) > 3 Then
        nameOfDeposed$ = fnMakeAlpha(temp$)
    Else
        temp$ = Mid$(firstPage$, posEOL1%, (posEOL2% - posEOL1%))
        nameOfDeposed$ = fnMakeAlpha(temp$)
        If Trim(nameOfDeposed$) = "" Then
            temp$ = Mid$(firstPage$, posEOL2%, (posEOL3% - posEOL2%))
            nameOfDeposed$ = fnMakeAlpha(temp$)
        End If
    End If
End Sub

```

```

frmDepoView - 4

    nameOfDeposed$ = Trim(nameOfDeposed$)
End Sub

Private Sub depoSelect()
    On Error Resume Next
    frmDepoView.Dialogue1.CancelError = False
    frmDepoView.Dialogue1.DialogTitle = "Open Deposition"
    frmDepoView.Dialogue1.Flags = OFN_HIDEREADONLY
    frmDepoView.Dialogue1.InitDir = pathOfDepos$
    frmDepoView.Dialogue1.Filter = "All files (*.*)|*.*"
    frmDepoView.Dialogue1.FilterIndex = 1
    frmDepoView.Dialogue1.Action = 1
    fileSource$ = frmDepoView.Dialogue1.filename
End Sub

Private Sub determineFormat()
    On Error Resume Next
    Dim char$
    Dim posFound%
    Open fileSource$ For Binary Access Read As #1
    char$ = Input$(5120, 1)
    Close #1
    posFound% = InStr(char$, endOfPage$)
    If posFound% = 0 Then
        Call pagePositionsAmicus
    Else
        Call pagePositionsAscii
    End If
End Sub

Private Function fnGetFirstLine(pageOfText As String) As String
    Dim eolPos%
    Dim sFirstLineOfText$
    eolPos% = InStr(pageOfText, new_Line$)
    sFirstLineOfText$ = Mid$(pageOfText, 1, eolPos%)
    fnGetFirstLine = sFirstLineOfText$
End Function

Private Function fnGetLastLine(pageOfText As String) As String
    Dim eolPos%
    'remove last eol marker
    pageOfText$ = Mid$(pageOfText$, 1, (Len(pageOfText$) - 2))
    'remove all other eol markers & whittle down pageOfText
    Do While InStr(pageOfText$, new_Line$)
        eolPos% = InStr(pageOfText$, new_Line$)
        pageOfText$ = Mid$(pageOfText$, eolPos% + 1)
    Loop
    fnGetLastLine = pageOfText$
End Function

Private Function fnMakeAlpha(firstPageOfDepo As String) As String
    Dim char$
    Dim alpha$
    Dim iloop%
    For iloop% = 1 To Len(firstPageOfDepo$)
        char$ = Mid$(firstPageOfDepo$, iloop%, 1)
        Select Case Asc(char$)
            Case 32, 65 To 90, 97 To 122
                alpha$ = alpha$ & char$
            End Select
    Next iloop%
    fnMakeAlpha = alpha$
End Function

Private Function fnMakeNumeric(alphaNumeric As String) As Integer
    Dim char$
    Dim numeric%
    Dim iloop%
    For iloop% = 1 To Len(alphaNumeric$)

```

```

frmDepoView - 5

    char$ = Mid$(alphaNumeric$, iloop%, 1)
    Select Case Asc(char$)
    Case 48 To 57
        numeric% = numeric% & CInt(char$)
    End Select
Next iloop%
fnMakeNumeric = numeric%
End Function

Private Sub Form_Load()
    On Error Resume Next
    frmDepoView.Left = (Screen.Width - frmDepoView.Width) / 2
    frmDepoView.Top = (Screen.Height - frmDepoView.Height) / 2
    Call buttonReset
    Call screenSize
    pathOfDepos$ = Command$
    If pathOfDepos$ = "" Then
        pathOfDepos$ = App.Path
    Else
        ' here we want code to replace images/ with depos/
        pathOfDepos$ = Left$(pathOfDepos$, (InStr(1, pathOfDepos$, "Images", 1) - 1)) & "Depos\"
    End If
    endOfPage$ = Chr$(12)
    new Line$ = Chr$(13)
End Sub

Private Sub Form_Resize()
    Call screenSize
End Sub

Private Sub getPageNumber()
    On Error Resume Next
    Dim iValidSearch%
    Dim iFirstLine%
    Dim iLastLine%
    Dim errCode%
    Dim sFirstLine$
    Dim sLastLine$
    Dim pageFromDepos
    pageFromDepos = txtCopyPaste.Text
    errCode% = 0
    sFirstLine$ = fnGetFirstLine(pageFromDepos)
    sLastLine$ = fnGetLastLine(pageFromDepos)
    iFirstLine% = fnMakeNumeric(sFirstLine$)
    iLastLine% = fnMakeNumeric(sLastLine$)
    ' check for page numbers with word 'page' eg "Page 148"
    iValidSearch% = InStr(1, sFirstLine$, "page", 1)
    If iValidSearch% > 0 Then
        If iFirstLine% > 0 Then
            iPageNumShown% = iFirstLine%
            Exit Sub
        End If
    End If
    iValidSearch% = InStr(1, sLastLine$, "page", 1)
    If iValidSearch% > 0 Then
        If iLastLine% > 0 Then
            iPageNumShown% = iLastLine%
            Exit Sub
        End If
    End If
    ' check for amicus style number eg "00148"
    On Error GoTo amicusLastLine
    Select Case Len(Trim(sFirstLine$))
    Case 4, 5
        iPageNumShown% = CInt(Trim(sFirstLine$))
    End Select
    Exit Sub
    amicusLastLine:
    On Error GoTo genericNumber

```


frmDepoView - 6

```

    Select Case Len(Trim(sLastLine$))
    Case 4, 5
        iPageNumShown% = CInt(Trim(sLastLine$))
        Exit Sub
    End Select
genericNumber: ' check for generic number eg "148"
On Error Resume Next
Select Case Len(Trim(sFirstLine$))
Case 1, 2, 3
    If iFirstLine% > 0 Then
        iPageNumShown% = iFirstLine%
        Exit Sub
    End If
End Select
Select Case Len(Trim(sLastLine$))
Case 1, 2, 3
    If iLastLine% > 0 Then
        iPageNumShown% = iLastLine%
        Exit Sub
    End If
End Select
iPageNumShown% = 0
End Sub

Private Sub mnuEditCopy_Click()
    cmdCopy_Click
End Sub

Private Sub mnuEditFind_Click()
    cmdWordFind_Click
End Sub

Private Sub mnuFileExit_Click()
    End
End Sub

Private Sub mnuFileOpen_Click()
    On Error Resume Next
    'reset a few variables
    pageNumber% = 1
    search$ = ""
    pctDisplay.Visible = True
    Call depoSelect
    If frmDepoView.Dialogue1.filename = "" Then Exit Sub
    'Call determineFormat
    Call pagePositionsAscii 'or pagePositionsAmicus
    Call pageLocations
    Call depositedName
    Call pageDisplay
End Sub

Private Sub mnuFilePrint_Click()
    On Error Resume Next
    Dim x%
    Dim pos%
    Dim EOPMarker%
    Dim pageList1$
    Dim found%
    Dim currentLines
    Dim pageList1Trim$
    Printer.FontBold = True
    Printer.FontSize = 12
    Printer.FontName = "Courier"
    Printer.FontSize = 12
    For x% = 1 To numOfPages%
        Printer.Print " ": Printer.Print " ": Printer.Print " "
        Printer.Print " ": Printer.Print " ": Printer.Print " "
        pageNumber% = x%
        pos% = 1
    
```

frmDepoView - 7

```

    If pageNumber% = 1 Then
        If FirstPageEOPMarker% = 1 Then pos% = 2
    Else
        pos% = page(pageNumber - 1) + 1
    End If
    EOPMarker% = page(pageNumber%)
    Open fileSource$ For Binary Access Read As #1
    Seek #1, pos%
    pageList1$ = Input$((EOPMarker% - pos%), 1)
    Close #1
    Do While Len(pageList1$) <> 0
        found% = InStr(pageList1$, new_Line$)
        currentLine$ = Mid$(pageList1$, 1, (found% - 1))
        If Trim(currentLine$) <> "" Then
            pageList1Trim$ = pageList1Trim$ & currentLine$ & Chr$(13) & Chr$(10)
        End If
        pageList1$ = Mid$(pageList1$, (found% + 2))
    Loop
    Printer.Print pageList1Trim$
    Printer.NewPage
    pageList1Trim$ = ""
Next x%
Printer.EndDoc
End Sub

Private Sub mnuFilePrinterCondensed_Click()
    On Error Resume Next
    Dim x%
    Dim pos%
    Dim EOPMarker%
    Dim pageList1$
    Dim found%
    Dim currentLine$
    Dim pageList1Trim$
    Dim liPrintPosX%
    Dim liPrintPosY%
    Dim liQuadrant%
    liQuadrant% = 1
    Printer.FontBold = True
    Printer.FontSize = 7
    Printer.FontName = "Courier"
    Printer.FontSize = 7
    For x% = 1 To numOfPages
        pageNumber% = x%
        pos% = 1
        If pageNumber% = 1 Then
            If FirstPageEOPMarker% = 1 Then pos% = 2
        Else
            pos% = page(pageNumber - 1) + 1
        End If
        EOPMarker% = page(pageNumber%)
        Open fileSource$ For Binary Access Read As #1
        Seek #1, pos%
        pageList1$ = Input$((EOPMarker% - pos%), 1)
        Close #1
        If liQuadrant% = 1 Then
            liPrintPosX% = 0
            liPrintPosY% = 0
            liQuadrant% = 2
        ElseIf liQuadrant% = 2 Then
            liPrintPosX% = 0
            liPrintPosY% = Printer.ScaleHeight / 2
            liQuadrant% = 3
        ElseIf liQuadrant% = 3 Then
            liPrintPosX% = Printer.ScaleWidth / 2
            liPrintPosY% = 0
            liQuadrant% = 4
        ElseIf liQuadrant% = 4 Then
            liPrintPosX% = Printer.ScaleWidth / 2

```

frmDepoView - 8

```

        liPrintPosY% = Printer.ScaleHeight / 2
        liQuadrant% = 1
    End If

    Printer.CurrentY = liPrintPosY%
    Printer.Print " ": Printer.Print " "
    Do While Len(pageList1$) <> 0
        found% = InStr(pageList1$, new_Line$)
        currentLine$ = Mid$(pageList1$, 1, (found% - 1))
        If Trim(currentLine$) <> "" Then
            'pageList1Trim$ = pageList1Trim$ & currentLine$ & Chr$(13) & Chr$(10)
            Printer.CurrentX = liPrintPosX%
            Printer.Print currentLine$ & new_Line$;
        End If
        pageList1$ = Mid$(pageList1$, (found% + 2))
    Loop
    pageList1Trim$ = ""
    If xt% Mod 4 = 0 Then
        Printer.Line ((Printer.ScaleWidth / 2), 0)-((Printer.ScaleWidth / 2), Printer.ScaleHeight)
        Printer.Line (0, (Printer.ScaleHeight / 2))-((Printer.ScaleWidth, (Printer.ScaleHeight / 2))
        Printer.NewPage
    End If
Next xt

Printer.EndDoc

End Sub

Private Sub mnuFilePrinterSetup_Click()
    Dim CancelFlag As Integer

    CancelFlag = True
    On Error Resume Next
    Dialoguel.CancelError = True
    Dialoguel.Flags = PD_PRINTSETUP
    Dialoguel.Action = 5
    If (Err = 0) Then
        CancelFlag = False
    End If
    If (CancelFlag = True) Then Exit Sub

End Sub

Private Sub mnuHelpAbout_Click()
    Load frmAbout
    frmAbout.Show
End Sub

Private Sub pageDisplay()
    On Error Resume Next
    Dim found%
    Dim pos%
    Dim currentLine$
    Dim EOPMarker%
    Dim pageList1$
    Dim pageList1Trim$
    pos% = 1
    If pageNumber% = 1 Then
        If FirstPageEOPMarker% = 1 Then pos% = 2
    Else
        pos% = page(pageNumber - 1) + 1
    End If
    EOPMarker% = page(pageNumber%)
    pctDisplay.Cls
    txtCopyPaste.Clear
    Open fileSource$ For Binary Access Read As #1
    Seek #1, pos%

```

frmDepoView - 9

```

pageList1$ = Input$(ZOPMarker6 - pos4), 1)
Close #1
Do While Len(pageList1$) <> 0
    found% = InStr(pageList1$, new_Line$)
    currentLine$ = Mid$(pageList1$, 1, (found% - 1))
    If Trim(currentLine$) <> "" Then
        If search$ = "" Then
            pctDisplay.Print currentLine$
            pageList1Trim$ = pageList1Trim$ & currentLine$ & Chr$(13) & Chr$(10)
        Else
            pageList1Trim$ = pageList1Trim$ & currentLine$ & Chr$(13) & Chr$(10)
            If InStr(1, currentLine$, search$, 1) Then
                pctDisplay.Print Mid$(currentLine$, 1, (InStr(1, currentLine$, search$, 1) - 1));
                pctDisplay.ForeColor = &HFF ' red
                pctDisplay.Print Mid$(currentLine$, (InStr(1, currentLine$, search$, 1)), Len(sea
rch$));
                pctDisplay.ForeColor = &H0 ' black
                pctDisplay.Print Mid$(currentLine$, ((InStr(1, currentLine$, search$, 1) + Len(s
earch$)))
            Else
                pctDisplay.Print currentLine$
            End If
        End If
        End If
        pageList1$ = Mid$(pageList1$, (found% + 2))
    Loop
    txtCopyPaste.Text = pageList1Trim$
    If InStr(txtCopyPaste.Text, search$, 1) Then
        pctScroll.Visible = True
        txtCopyPaste.Visible = False
    Else
        pctScroll.Visible = False
        txtCopyPaste.Visible = True
    End If
    If search$ = "" Then
        pctScroll.Visible = False
        txtCopyPaste.Visible = True
    End If
    Call buttonReset
    Call getPageNumber
    Me.Caption = "Deposition of " & nameOfDeposed$ & "      Page # " & iPageNumShown%
End Sub

Private Sub pageLocations()
    Dim x%
    Dim found%
    ReDim page(1 To numOfPages%)
    x% = 1
    Do While Len(eopLocations$) > 0
        found% = InStr(eopLocations$, " ")
        If found% <> 0 Then
            page(x%) = Int(Mid(eopLocations$, 1, found%))
            eopLocations$ = Mid$(eopLocations$, (found% + 1))
            x% = x% + 1
        Else
            Exit Do
        End If
    Loop
End Sub

Private Sub pagePositionsAmicus()
    MsgBox "Currently unsupported file format.", 64, "Unsupported format."
Exit Sub
' On Error Resume Next
' Dim firstPageNumber%
' Dim nextPageNumber%
' Dim amicusPageNumbers
' Dim trimChar$
' Dim char$

```

```

frmDepoView - 10

' Dim zeros$
' zeros$ = "0000"
' numOfPages% = 0
' Open fileSource$ For Input As #1
'   Line Input #1, char$
'   trimChar$ = Trim(char$)
'   firstPageNumber% = CInt(trimChar$)
' Close #1
' 'loop
'   nextPageNumber% = nextPageNumber% + 1
'   amicusPageNumber$ = Right$((zeros$ & CStr(nextPageNumber%)), 4)
'   'search for amicusPageNumber

' Open fileSource$ For Binary Access Read As #1
' Do Until EOF(1) ' find the number of end of page markers
'   char$ = Input$(32768, 1)
'   posFound% = InStr(char$, amicusPageNumber$)
'   If posFound% <> 0 Then
'     numOfPages% = numOfPages% + 1
'     eopLocations$ = eopLocations$ & (offsetPosition% + posFound%) & " "
'   End If
'   offsetPosition% = offsetPosition% + 32768
' Loop
' Close #1

' Seek #1, 1 ' make adjustment if 1st page starts with EOP marker
' If Input$(1, 1) = endOfPage$ Then
'   numOfPages% = numOfPages% - 1
'   eopLocations$ = Mid$(eopLocations$, 3)
'   FirstPageEOPMarker% = 1 ' if first page starts with an EOP marker
' End If
' Seek #1, LOF(1) ' make adjustment if last page has no EOF
' If Input$(1, 1) <> endOfPage$ Then
'   numOfPages% = numOfPages% + 1
'   eopLocations$ = eopLocations$ & FileLen(fileSource$) & " "
' End If

' Me.Caption = Me.Caption & " " & numOfPages%
End Sub

Private Sub pagePositionsAscii()
On Error Resume Next
Dim char$
Dim posFound%
Dim offsetPosition%
Dim lastCharPosition%
numOfPages% = 0
FirstPageEOPMarker% = 0
lastCharPosition% = FileLen(fileSource$)
Open fileSource$ For Binary Access Read As #1
Do Until EOF(1) ' find the number of end of page markers
  char$ = Input$(128, 1)
  posFound% = InStr(char$, endOfPage$)
  If posFound% <> 0 Then
    numOfPages% = numOfPages% + 1
    eopLocations$ = eopLocations$ & (offsetPosition% + posFound%) & " "
  End If
  offsetPosition% = offsetPosition% + 128
Loop
Seek #1, 1 ' make adjustment if 1st page starts with EOP marker
If Input$(1, 1) = endOfPage$ Then
  numOfPages% = numOfPages% - 1
  eopLocations$ = Mid$(eopLocations$, 3)
  FirstPageEOPMarker% = 1 ' if first page starts with an EOP marker
End If

```

```

frmDepoView - 11

Seek #1, LOF(1) ' make adjustment if last page has no EOF
If Input$(1, 1) <> endOfPage$ Then
    numOfPages% = numOfPages% + 1
    eopLocations$ = eopLocations$ & FileLen(fileSource$) & " "
End If
Close #1
End Sub

Private Sub pctDisplay_Click()
    txtCopyPaste.Visible = True
    pctScroll.Visible = False
    txtCopyPaste.SetFocus
End Sub

Private Sub screenSize()
    On Error Resume Next
    pctScroll.Top = cmdWordPrev.Height + cmdWordPrev.Top + 10
    pctScroll.Left = 10
    pctScroll.Width = frmDepoView.ScaleWidth - 50
    pctScroll.Height = frmDepoView.ScaleHeight - cmdPagePrev.Height - 50
    VScroll1.Top = 0
    VScroll1.Left = pctScroll.Width - VScroll1.Width
    VScroll1.Height = pctScroll.Height
    VScroll1.Max = 100
    VScroll1.LargeChange = 33
    VScroll1.SmallChange = 16
    pctDisplay.Top = 0
    pctDisplay.Left = 0
    pctDisplay.Width = pctScroll.Width - VScroll1.Width - 40
    pctDisplay.Height = Screen.Height * 2
    txtCopyPaste.Top = pctScroll.Top
    txtCopyPaste.Left = pctScroll.Left
    txtCopyPaste.Width = pctScroll.Width
    txtCopyPaste.Height = pctScroll.Height
End Sub

Private Sub VScroll1_Change()
    'pctDisplay.Top = -VScroll1.Value
    pctDisplay.Top = -(VScroll1.Value / 100) * ScaleHeight
End Sub

Private Sub wordFind()
    On Error Resume Next
    Dim x%
    Dim lastPageNumber%
    Dim found%
    Dim lineFromFile$
    Dim tempFinds$
    lastPageNumber% = 0
    temp$ = ""
    Open fileSource$ For Input As #1
    If Input$(1, 1) = endOfPage$ Then
        pageNumber% = 0
    Else
        pageNumber% = 1
    End If
    Close #1
    Open fileSource$ For Input As #1
    Do Until EOF(1)
        Line Input #1, lineFromFile$
        If InStr(lineFromFile$, endOfPage$) Then pageNumber% = pageNumber% + 1
        If InStr(1, lineFromFile$, search$, 1) Then
            If pageNumber% <> lastPageNumber% Then
                lastPageNumber% = pageNumber%
                temp$ = temp$ & pageNumber% & " "
            End If
        End If
    Loop
    Close #1

```

frmDepoView - 12

```
tempFinds$ = temp$
' determine the number of numbers in this string then redim an array
' to hold each individual number
If temp$ = "" Then Exit Sub ' no match found
found% = 0
Do While Len(temp$) > 0
    found% = InStr(temp$, " ")
    If found% <> 0 Then
        foundcount% = foundcount% + 1
        temp$ = Mid$(temp$, (found% + 1))
    Else
        Exit Do
    End If
Loop
' now extract each page # and put them into the Finds() array
' use Finds() array to bounce around from page to page
ReDim finds(foundcount% + 1)
temp$ = tempFinds$
For x% = 1 To foundcount%
    found% = InStr(temp$, " ")
    finds(x%) = Int(Mid(temp$, 1, (found%)))
    temp$ = Mid$(temp$, (found% + 1))
Next x%
f% = 1
End Sub
```

```

frmIntro - 1

Option Explicit
DefInt A-Z

Private Sub displayText()
    FontSize = 42
    frmIntro.CurrentX = 32: frmIntro.CurrentY = 52
    ForeColor = QBColor(8)
    Print "Deposition Viewer"
    frmIntro.CurrentX = 30: frmIntro.CurrentY = 50
    ForeColor = QBColor(15)
    Print "Deposition Viewer"
    frmIntro.CurrentX = 31: frmIntro.CurrentY = 51
    ForeColor = QBColor(7)
    Print "Deposition Viewer"
    *****
    FontSize = 21
    frmIntro.CurrentX = 82: frmIntro.CurrentY = 302
    ForeColor = QBColor(8)
    Print "Copyright 1996, Luke Spence"
    frmIntro.CurrentX = 80: frmIntro.CurrentY = 300
    ForeColor = QBColor(15)
    Print "Copyright 1996, Luke Spence"
    frmIntro.CurrentX = 81: frmIntro.CurrentY = 301
    ForeColor = QBColor(7)
    Print "Copyright 1996, Luke Spence"
End Sub

Private Sub exitSpalshScreen()
    frmDepoView.Show
    frmIntro.Hide
    Unload frmIntro
End Sub

Private Sub Form_Click()
    exitSpalshScreen
End Sub

Private Sub Form_KeyPress(KeyAscii As Integer)
    exitSpalshScreen
End Sub

Private Sub Form_Load()
    frmIntro.Left = (Screen.Width - frmIntro.Width) / 2
    frmIntro.Top = (Screen.Height - frmIntro.Height) / 2
    Load frmDepoView
End Sub

Private Sub Form_Paint()
    Call displayText
End Sub

Private Sub Timer1_Timer()
    exitSpalshScreen
End Sub

```



```
frmCases - 1

Option Explicit
DefInt 2-7
Dim sNewCase$

Private Sub cmdAdd_Click()
    pctAddCase.Top = lstCases.Top
    pctAddCase.Left = lstCases.Left
    lstCases.Visible = False
    pctAddCase.Visible = True
End Sub

Private Sub cmdCancelNames_Click()
    lstCases.Visible = True
    pctAddCase.Visible = False
End Sub

Private Sub cmdOK_Click()
    sNewCase$ = txtClient.Text & "/" & txtMatter.Text
    lstCases.AddItem sNewCase$
    lstCases.Visible = True
    pctAddCase.Visible = False
End Sub

Private Sub Form_Load()
    frmCases.Left = (Screen.Width - frmCases.Width) / 2
    frmCases.Top = (Screen.Height - frmCases.Height) / 2
    Dim sCaseInput$
    Dim sCaseName$
    Dim sCasePath$
    Dim sFileName$
    sFileName$ = App.Path & "cases.inf"
    sFileName$ = "C:\vb30\cases.inf"
    Open sFileName$ For Input As #1
    Do Until EOF(1)
        Line Input #1, sCaseInput$
        sCaseName$ = Mid$(sCaseInput$, 1, InStr(sCaseInput$, "*") - 1)
        lstCases.AddItem sCaseName$
    Loop
    Close #1
End Sub
```

```
frmBrowse - 1

Option Explicit
DefInt A-Z
Dim sDirectoryPath$

Private Sub cmdCancel_Click()
    Call frmBrowseQuit
End Sub

Private Sub cmdOK_Click()
    'code to send back the selected directory name
    frmDepoView.Caption = sDirectoryPath$
    Call frmBrowseQuit
End Sub

Private Sub Dir1_Change()
    sDirectoryPath$ = dir1.Path
End Sub

Private Sub Drive1_Change()
    On Error Resume Next
    dir1.Path = Drive1.Drive
End Sub

Private Sub Form_Load()
    frmBrowse.Left = (Screen.Width - frmBrowse.Width) / 2
    frmBrowse.Top = (Screen.Height - frmBrowse.Height) / 2
    dir1.Path = "\"
End Sub

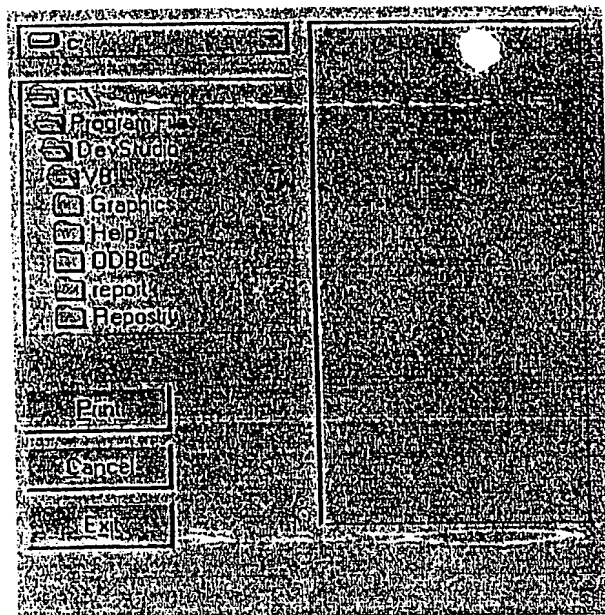
Private Sub frmBrowseQuit()
    frmBrowse.Hide
    Unload frmBrowse
End Sub
```

```
frmAbout - 1

Option Explicit
DefInt A-Z

Private Sub cmdOK_Click()
    frmAbout.Hide
    Unload frmAbout
End Sub

Private Sub Form_Load()
    frmAbout.Left = (Screen.Width - frmAbout.Width) / 2
    frmAbout.Top = (Screen.Height - frmAbout.Height) / 2
    ScaleMode = 3
End Sub
```



Form1 - 1

' Copyright (C) 1995,1996, 1997 Tempest Software
' Last modified on 05/02/97

Option Explicit
DefInt A-Z

```
Dim cancelButton%
Dim totalFiles%
Dim totalProcessed%
Dim percentDone%
Dim x%
Dim numOffFiles%
Dim fileToGet$
Private Sub cmdCancel_Click()
    cancelButton% = True
    File1.Refresh
End Sub
```

```
Private Sub cmdClose_Click()
    End
End Sub
```

```
Private Sub cmdPrint_Click()
    On Error GoTo printError
    Dim startPos%
    Dim endPos%
    Dim filePath$
    Dim fileName$
    Dim allFilesToPrint$
    Dim I%
    Dim tiffPages%
    cancelButton% = False
    totalProcessed% = 0
    totalFiles% = 0
    startPos = 1
    If File1.fileName = "" Then 'If no file selected, display message & abort
        MsgBox "Please choose a file.", 0, "No file selected."
        Exit Sub
    End If
    If Right(File1.Path, 1) = "\" Then
        filePath = File1.Path
    Else
        filePath = File1.Path & "\"
    End If
    numOffFiles% = File1.ListCount ' determine number of files for percent display
    For x% = 0 To numOffFiles% - 1
        If File1.Selected(x%) Then
            totalFiles% = totalFiles% + 1
            allFilesToPrint$ = allFilesToPrint$ & File1.List(x) & " "
        End If
    Next x%
    Call buttonDisable
    Do Until startPos >= Len(allFilesToPrint$)
        endPos = InStr(startPos, allFilesToPrint$, " ")
        fileName$ = Mid$(allFilesToPrint$, startPos, endPos - startPos)
        startPos = endPos + 1
        fileToGet$ = filePath & fileName$
        ImageMan1.Picture = fileToGet$
        tiffPages% = ImageMan1.Pages
        totalProcessed% = totalProcessed% + 1
        percentDone% = totalProcessed% / totalFiles% * 100
        lblDocsDone.Caption = "Printing document " & totalProcessed% & " of " & totalFiles% & ". (" & percentDone% & "%)"
        Printer.Print ""
        Printer.Print ""
        Printer.FontBold = True
        Printer.FontSize = 50
        Printer.Print fileName$
    Loop
```

Form1 - 2

```

Printer.Print tiffPages & " page(s)"
Printer.Line (0, 0)-(Printer.ScaleWidth, 0)
Printer.NewPage

For I% = 0 To tiffPages% - 1
    Printer.Print ""
    Printer.ScaleMode = vbTwips
    ImageMan1.PrnHdc = Printer.hDC
    ImageMan1.DstLeft = 0
    ImageMan1.DstTop = 0
    ImageMan1.DstRight = Printer.ScaleWidth
    ImageMan1.DstBottom = Printer.ScaleHeight
    ImageMan1.PageNumber = I%
    ImageMan1.Refresh
    percentDone% = (I% + 1) / (tiffPages% + 1) * 100
    lblPagesDone.Caption = "Printing page " & I% + 1 & " of " & tiffPages% & ". (" & percentD
one% & "%)"
    DoEvents
    ImageMan1.PrintImage
    Printer.NewPage
    DoEvents
Next I%
Printer.EndDoc
DoEvents
If cancelButton% = True Then
    cancelButton% = False 'reset the cancel button
    Call buttonEnable
    File1.Refresh
    Printer.EndDoc
    Printer.KillDoc
    ImageMan1.Picture = ""
    'pnlPagesDone.FloodPercent = 0 ' reset the bar
    'pnlPercentDone.FloodPercent = 0 ' reset the bar
    lblDocsDone.Caption = ""
    lblPagesDone.Caption = ""
    Exit Do
End If
Loop
ImageMan1.Picture = ""
'pnlPercentDone.FloodPercent = 0
lblDocsDone.Caption = ""
lblPagesDone.Caption = ""
Call buttonEnable
File1.Refresh
Exit Sub

printError:
MsgBox "Error # " & Str(Err.Number) & " was generated." & Chr(13) & Err.Description, , "Error"
, Err.HelpFile, Err.HelpContext
Resume Next
End Sub

Private Sub Dir1_Change()
    File1.Path = Dir1.Path
End Sub

Private Sub Drive1_Change()
    On Error Resume Next
    Dir1.Path = Drive1.Drive
End Sub

Private Sub Form_Load()
    Me.Left = (Screen.Width - Me.Width) / 2
    Me.Top = (Screen.Height - Me.Height) / 3
    On Error Resume Next
    cancelButton% = False
End Sub

```

Form1 - 3

```
Public Sub buttonDisable()  
    File1.Enabled = False  
    Dir1.Enabled = False  
    Drive1.Enabled = False  
    cmdPrint.Enabled = False  
    cmdClose.Enabled = False  
End Sub
```

```
Public Sub buttonEnable()  
    File1.Enabled = True  
    Dir1.Enabled = True  
    Drive1.Enabled = True  
    cmdPrint.Enabled = True  
    cmdClose.Enabled = True  
End Sub
```

Paper Chaser Table Structure

Court Information
Disk Names
Document Info
List of Privileges
Preferences
Report Names

Court Information

Field Name	Data Type	Length
Cause #	Text	250
Plaintiff	Text	250
Defendant	Text	250
Court	Text	250
County	Text	250
State	Text	250
Title of Pleading	Text	250

Disk Names

Field Name	Data Type	Length
DiskName	Text	50
DOCN1	Text	50
DOCN2	Text	50

Document Info

Field Name	Data Type	Length
Doc Number	Text	9
Entry Info	Text	12
Doc Date	Date/Time	
Beg Bates #	Text	20
End Bates #	Text	20
To	Text	250
From	Text	250
CC's	Text	250
Description	Memo	64,000
Marked	Text	2
Offered	Text	2
Admitted	Text	2
Date	Text	20
Tag 1	Text	2
Tag 2	Text	2
Tag 3	Text	2
Tag 4	Text	2
Tag 5	Text	2
Tag 6	Text	2
Tag 7	Text	2
Tag 8	Text	2
Tag 9	Text	2
Tag 10	Text	2
Tag 11	Text	2
Tag 12	Text	2
Tag 13	Text	2
Tag 14	Text	2
Tag 15	Text	2
Tag 16	Text	2
Tag 17	Text	2
Tag 18	Text	2
Tag 19	Text	2
Tag 20	Text	2
Tag 21	Text	2
Tag 22	Text	2
Tag 23	Text	2
Tag 24	Text	2
Produced	Text	1
Comments	Memo	64,000
Privilege Log	Text	25
Revised By	Text	3
Date Revised	Date/Time	
Print	Text	20
Exhibit #	Number	Long Integer (-2,147,483,648 to 2,147,483,647)
Ext	Text	6
Order of Display	Number	Long Integer (-2,147,483,648 to 2,147,483,647)
Disposition	Text	20

List of Privileges

Field Name	Data Type	Length
Privileges	Text	25

Preferences

Field Name	Data Type	Length
Case Name		
View Screen Message		
Field 1	Text	50
Field 2	Text	50
Field 3	Text	50
Field 4	Text	50
Field 5	Text	50
Field 6	Text	50
Field 7	Text	50
Field 8	Text	50
Field 9	Text	50
Field 10	Text	50
Field 11	Text	50
Field 12	Text	50
Field 13	Text	50
Field 14	Text	50
Field 15	Text	50
Field 16	Text	50
Field 17	Text	50
Field 18	Text	50
Field 19	Text	50
Field 20	Text	50
Field 21	Text	50
Field 22	Text	50
Field 23	Text	50
Field 24	Text	50
ImagePath	Text	100
IsysPath	Text	100
DbPath1	Text	100

Report Names

Field Name	Data Type	Length
Report 1	Text	50
Report 2	Text	50
Report 3	Text	50
Report 4	Text	50
Report 5	Text	50
Report 6	Text	50
Report 7	Text	50
Report 8	Text	50
Report 9	Text	50
Report 10	Text	50
Report 11	Text	50
Report 12	Text	50
Report 13	Text	50
Report 14	Text	50
Report 15	Text	50
Report 16	Text	50
Report 17	Text	50
Report 18	Text	50
Report 19	Text	50
Report 20	Text	50
Report 21	Text	50
Report 22	Text	50
Report 24	Text	50
Report 24	Text	50

```

frmAutomate - 1

'Automated Document Separator
'Copyright (c) 1996, Luke Spence
Option Explicit
DefInt A-Z
Private Declare Function GetPixel Lib "GDI" (ByVal hDC As Integer, ByVal x As Integer, ByVal Y As Integer) As Long
Dim lColor%
Dim iX%
Dim iY%
Dim sFileNames$
Dim iPageCount%
Dim iCurrentPage%
Dim iNewFilesFileNames$
Dim iNewFilePageCount%
Dim iNewFileCurrentPage%
Dim sValidDivider$
Dim iFileNumber%
Dim sNewFileNames$

Private Sub cmdFileOpen_Click()
    On Error GoTo errorLoad
    Dim iDocCount%
    iDocCount% = 0
    If txtDocNameNumber.Text = "" Then Exit Sub
    iFileNumber% = frmAutomate.txtDocNameNumber.Text
    iCurrentPage% = 0
    frmAutomate.cdlFilename.filename = "*.tif"
    frmAutomate.cdlFilename.InitDir = "c:\pictures\demo\"
    frmAutomate.cdlFilename.Action = 1
    On Error Resume Next
    If frmAutomate.cdlFilename = "*.tif" Then Exit Sub
    File1.Path = "c:\pictures\demo\"
    File1.Visible = True
    frmAutomate.TIFF.File = frmAutomate.cdlFilename.filename
    Call pagesTotal
    frmAutomate.lblNumOfPages.Caption = "Number Of Pages: " & iPageCount%
    Do While iCurrentPage% < iPageCount%
        iCurrentPage% = iCurrentPage% + 1
        frmAutomate.lblCurrentPage.Caption = "Current Page: " & iCurrentPage%
        Call imageDisplay
        Call examinePage
        File1.Refresh
        DoEvents
        If sValidDivider$ = "T" Then
            iFileNumber% = iFileNumber% + 1
            iDocCount% = iDocCount% + 1
        Else
            Call writeTIF
        End If
    Loop
    iDocCount% = iDocCount% + 1
    'reset everything back to original status
    lblCurrentPage.Caption = ""
    lblNumOfPages.Caption = ""
    txtDocNameNumber.Text = ""
    txtDocNamePrefix.Text = ""
    cmdFileOpen.Enabled = False
    frmAutomate.TIFF.File = ""
    frmAutomate.TIFF.Repaint = True
    MsgBox " " & iPageCount% & " pages were separated into " & iDocCount% & " documents.", 0, "Document Separation Complete."
    Exit Sub
errorLoad:
    'reset everything back to original status
    lblCurrentPage.Caption = ""
    lblNumOfPages.Caption = ""
    txtDocNameNumber.Text = ""
    txtDocNamePrefix.Text = ""
    cmdFileOpen.Enabled = False

```

frmAutomate - 2

```
frmAutomate.TIFF.File = ""
frmAutomate.TIFF.Repaint = True
Exit Sub
End Sub
```

```
Private Sub examinePage()
    Dim sColorCount$
    Dim iQuadrant%
    Dim iWidthSection%
    Dim iHeightSection%
    Dim iPixelCheck%
    Dim iBlackCount%
    Dim iWhiteCount%
    Dim iLargeX%
    Dim iLargeY%
    Dim iSmallX%
    Dim iSmallY%
    iWidthSection% = frmAutomate.TIFF.BitmapWidth / 8
    iHeightSection% = frmAutomate.TIFF.BitmapHeight / 8
    frmAutomate.TIFF.Visible = True
    frmAutomate.TIFF.BitmapDC = True
    For iQuadrant% = 1 To 4
        Select Case iQuadrant%
            Case 1
                iSmallX% = iWidthSection% * 1
                iSmallY% = iHeightSection% * 1
                iLargeX% = iWidthSection% * 3
                iLargeY% = iHeightSection% * 3
            Case 2
                iSmallX% = iWidthSection% * 5
                iSmallY% = iHeightSection% * 1
                iLargeX% = iWidthSection% * 7
                iLargeY% = iHeightSection% * 3
            Case 3
                iSmallX% = iWidthSection% * 1
                iSmallY% = iHeightSection% * 5
                iLargeX% = iWidthSection% * 3
                iLargeY% = iHeightSection% * 7
            Case 4
                iSmallX% = iWidthSection% * 5
                iSmallY% = iHeightSection% * 5
                iLargeX% = iWidthSection% * 7
                iLargeY% = iHeightSection% * 7
        End Select
        For iPixelCheck% = 1 To 1000
            iX% = Int((iLargeX% - iSmallX% + 1) * Rnd + iSmallX%)
            iY% = Int((iLargeY% - iSmallY% + 1) * Rnd + iSmallY%)
            iColor% = GetPixel(TIFF.BitmapDC, iX%, iY%)
            If iColor% = 0 Then
                iBlackCount% = iBlackCount% + 1
            Else
                iWhiteCount% = iWhiteCount% + 1
            End If
        Next iPixelCheck%
        Select Case iQuadrant%
            Case 1, 4
                If iWhiteCount% > 100 Then
                    frmAutomate.TIFF.BitmapDC = False
                    sValidDividers$ = "F"
                    Exit Sub
                End If
            Case 2, 3
                If iBlackCount% > 100 Then
                    frmAutomate.TIFF.BitmapDC = False
                    sValidDividers$ = "F"
                    Exit Sub
                End If
        End Select
        iBlackCount% = 0
    End For
End Sub
```



```
frmAutomate - 3

    iWhiteCount% = 0
    Next iQuadrant%
    sValidDividers = "r"
    frmAutomate.TIFF.BitmapDC = False
End Sub

Private Sub Form_Load()
    frmAutomate.ScaleWidth = 600
    frmAutomate.ScaleHeight = 450
    frmAutomate.Top = (Screen.Height - frmAutomate.Height) / 2
    frmAutomate.Left = (Screen.Width - frmAutomate.Width) / 2
    lblCurrentPage.Caption = ""
    lblNumOfPages.Caption = ""
    Randomize
End Sub

Private Sub imageDisplay()
    frmAutomate.TIFF.FilePage = iCurrentPage%
    frmAutomate.TIFF.File = frmAutomate.cd1Filename.filename
    frmAutomate.TIFF.ImageWidth = frmAutomate.TIFF.Width
    frmAutomate.TIFF.ImageHeight = frmAutomate.TIFF.Height
    frmAutomate.TIFF.Repaint = True
End Sub

Private Sub pagesTotal()
    frmAutomate.TIFF.InfoPage = 32767
    frmAutomate.TIFF.InfoFile = frmAutomate.cd1Filename.filename
    iPageCount% = TIFF.InfoPage
End Sub

Private Sub txtDocNameNumber_Change()
    cmdFileOpen.Enabled = True
End Sub

Private Sub writeTIF()
    frmAutomate.TIFF.FilePage = iCurrentPage%
    frmAutomate.TIFF.SaveMulti = True
    frmAutomate.TIFF.SaveFormat = LVB_FILE_CCITT_GROUP4
    frmAutomate.TIFF.SaveFile = txtDocNamePrefix.Text & "-" & iFileNumber% & ".tif"
End Sub
```

```
frmAutomate - 1
VERSION 5.00
Begin VB.Form frmAutomate
    Appearance = 0 'Flat
    AutoRedraw = -1 'True
    BackColor = &H00808000%
    Caption = "Automated Document Separator"
    ClientHeight = 6105
    ClientLeft = 1800
    ClientTop = 720
    ClientWidth = 6225
    BeginProperty Font
        Name = "MS Sans Serif"
        Size = 8.25
        Charset = 0
        Weight = 700
        Underline = 0 'False
        Italic = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor = &H80000008%
    Icon = (Icon)
    LinkTopic = "Form1"
    MaxButton = 0 'False
    PaletteMode = 1 'UseZOrder
    ScaleHeight = 407
    ScaleMode = 3 'Pixel
    ScaleWidth = 415
    Begin VB.FileListBox File1
        Appearance = 0 'Flat
        BackColor = &H00808000%
        ForeColor = &H00FFFFFF%
        Height = 5880
        Left = 4560
        TabIndex = 8
        Top = 120
        Visible = 0 'False
        Width = 1455
    End
    Begin VB.TextBox txtDocNamePrefix
        Appearance = 0 'Flat
        BackColor = &H00808000%
        Height = 285
        Left = 1800
        TabIndex = 5
        Top = 5400
        Width = 615
    End
    Begin VB.TextBox txtDocNameNumber
        Appearance = 0 'Flat
        BackColor = &H00808000%
        Height = 285
        Left = 1800
        TabIndex = 4
        Top = 5760
        Width = 615
    End
    Begin VB.PictureBox cdlFilename
        Appearance = 0 'Flat
        BackColor = &H80000005%
        ForeColor = &H80000008%
        Height = 480
        Left = 0
        ScaleHeight = 450
        ScaleWidth = 1170
        TabIndex = 9
        Top = 2400
        Width = 1200
    End
    Begin VB.PictureBox TIFF

```

frmAutomate - 2

```

    Appearance      = 0 'Flat
    BackColor       = &H00C0C0C0&
    ForeColor       = &H80000000&
    Height          = 4575
    Left            = 240
    ScaleHeight     = 4545
    ScaleWidth      = 4065
    TabIndex        = 1
    Top             = 600
    Width           = 4095
End
Begin VB.CommandButton cmdFileOpen
    Appearance      = 0 'Flat
    Caption         = "Open File"
    Enabled         = 0 'False
    Height          = 375
    Left            = 2640
    TabIndex        = 0
    Top             = 5520
    Width           = 1095
End
Begin VB.Label lblDocNameNumber
    Appearance      = 0 'Flat
    BackColor       = &H00808000&
    Caption         = "Start Number:"
    ForeColor       = &H80000000&
    Height          = 255
    Left            = 480
    TabIndex        = 7
    Top             = 5760
    Width           = 1215
End
Begin VB.Label lblDocNamePrefix
    Appearance      = 0 'Flat
    BackColor       = &H00808000&
    Caption         = "Prefix:"
    ForeColor       = &H80000000&
    Height          = 255
    Left            = 1080
    TabIndex        = 6
    Top             = 5400
    Width           = 615
End
Begin VB.Label lblCurrentPage
    Appearance      = 0 'Flat
    BackColor       = &H00808000&
    ForeColor       = &H80000000&
    Height          = 255
    Left            = 2400
    TabIndex        = 3
    Top             = 120
    Width           = 2175
End
Begin VB.Label lblNumOfPages
    Appearance      = 0 'Flat
    BackColor       = &H00808000&
    ForeColor       = &H80000000&
    Height          = 255
    Left            = 120
    TabIndex        = 2
    Top             = 120
    Width           = 2175
End
End
End

```

CLAIMS

WHAT IS CLAIMED IS:

1. A method for interpreting a computer file including a plurality of pages, said method
5 comprising:
 - (a) selecting a portion of a page;
 - (b) comparing said portion with a document separator template; and
 - (c) identifying a predefined image in said computer file.
2. The method of claim 1 wherein each page includes a plurality of pixel values and step (a)
10 includes selecting a subset of the pixel values of a page.
3. The method of claim 2 wherein step (b) includes comparing the pixel values of said subset
with corresponding pixel values in said document separator template.
4. The method of claim 3 wherein said document separator template includes a first area pixel
of values and a second area of pixel values, wherein the first area pixel values comprise a different
15 value than the second area pixel values.
5. The method of claim 4 wherein step (c) includes determining whether the pixel values of
said subset are substantially similar to the corresponding pixel values of said document separator
template.
6. The method of claim 5 further identifying a page in said computer file as a document
20 separator page when said pixel values of said subset are substantially similar to the corresponding
pixel values of said document separator template.
7. A computer readable storage medium for storing an executable set of software instructions
which, when inserted into a host computer system, is capable of controlling the operation of the
host computer, said software instructions being operable to identify the existence of a predefined
25 image in a computer file including a plurality of pages, said software instructions including:
 - means for selecting a portion of a page;
 - means for comparing said portion of a page with a document separator template; and
 - means for identifying a predefined image in said computer file.
8. The invention of claim 7 wherein each page includes a plurality of pixel values and said
30 means for selecting a portion of a page includes a means for selecting a subset of the pixel values of
said page.
9. The invention of claim 8 wherein said means for comparing said portion of a page with a
document separator template includes a means for comparing the pixel values of said subset with

corresponding pixel values in said document separator template.

10. The invention of claim 9 wherein said document separator template includes a first area pixel values and a second area of pixel values, wherein the first area pixel values comprise a different value than the second area pixel values.

5 11. The invention of claim 10 wherein said means for identifying a predefined image includes a means for determining whether the pixel values of said subset are substantially similar to the corresponding pixel values of said document separator template.

12. The invention of claim 11 wherein said means for identifying a page in said computer file as a document separator page includes a means for identifying a page as a document separator page
10 when said pixel values of said subset are substantially similar to the corresponding pixel values of said document separator template.

13. A user-configurable document management system, comprising:

a computer including a display and an input device;

a scanner coupled to said computer; and

15 a printer coupled to said computer;

wherein said computer includes document management software including:

an image viewer;

a search engine;

a briefing tool;

20 a transcript viewer; and

an installation module permitting a user to configure said software to include any desired image viewer, search engine, briefing tool, and transcript viewer.

14. The document management system of claim 13 wherein said briefing tool is adapted to generate a window on said display that remains viewable in its entirety until terminated by user
25 intervention.

15. The document management system of claim 13 wherein said transcript viewer interprets transcript files in a variety of formats and automatically determines which format is associated each transcript file.

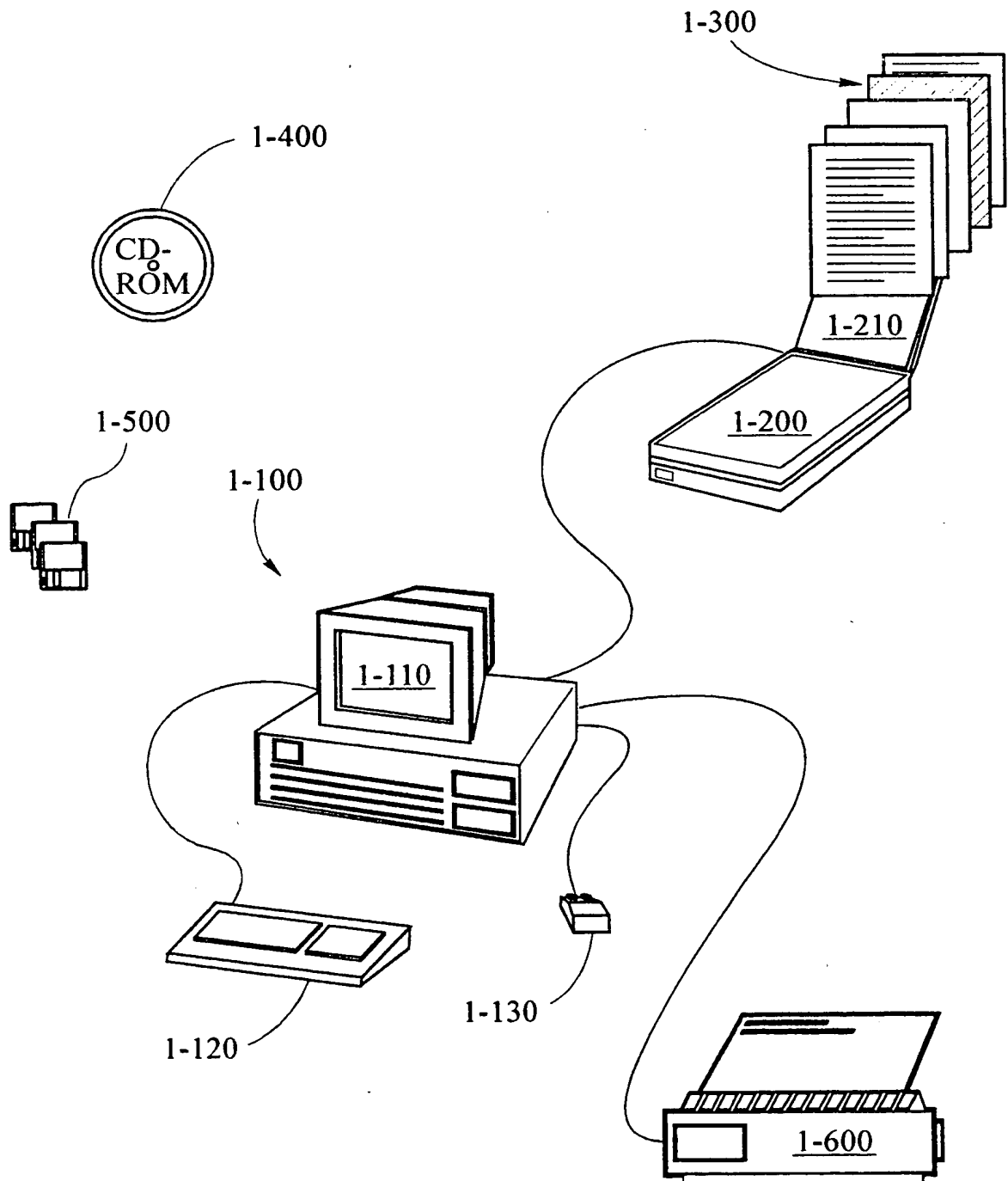
16. The document management system of claim 15 wherein said transcript viewer further
30 adapts each transcript file to be processed by said document management software.

17. A method for installing software comprising a plurality of modules in a computer system, comprising:

(a) recognizing the existence of installable modules;

- (b) installing said installable modules.
18. A method for generating a document database, comprising:
- (a) reading a look-up table;
 - (b) scanning a document; and
- 5 (c) storing said document in said document database at a location determined by said look-up table.

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*FIG 1*

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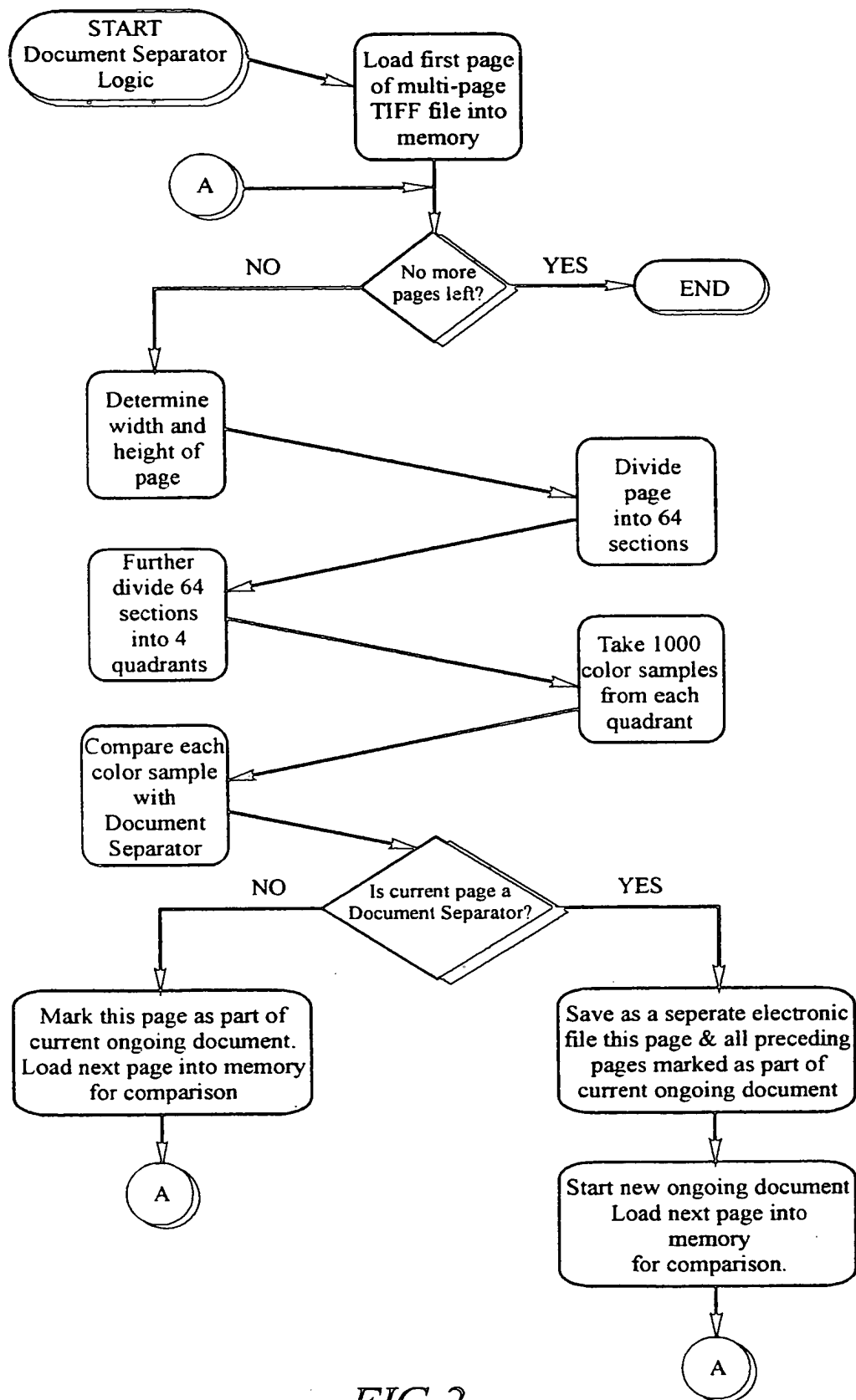


FIG 2

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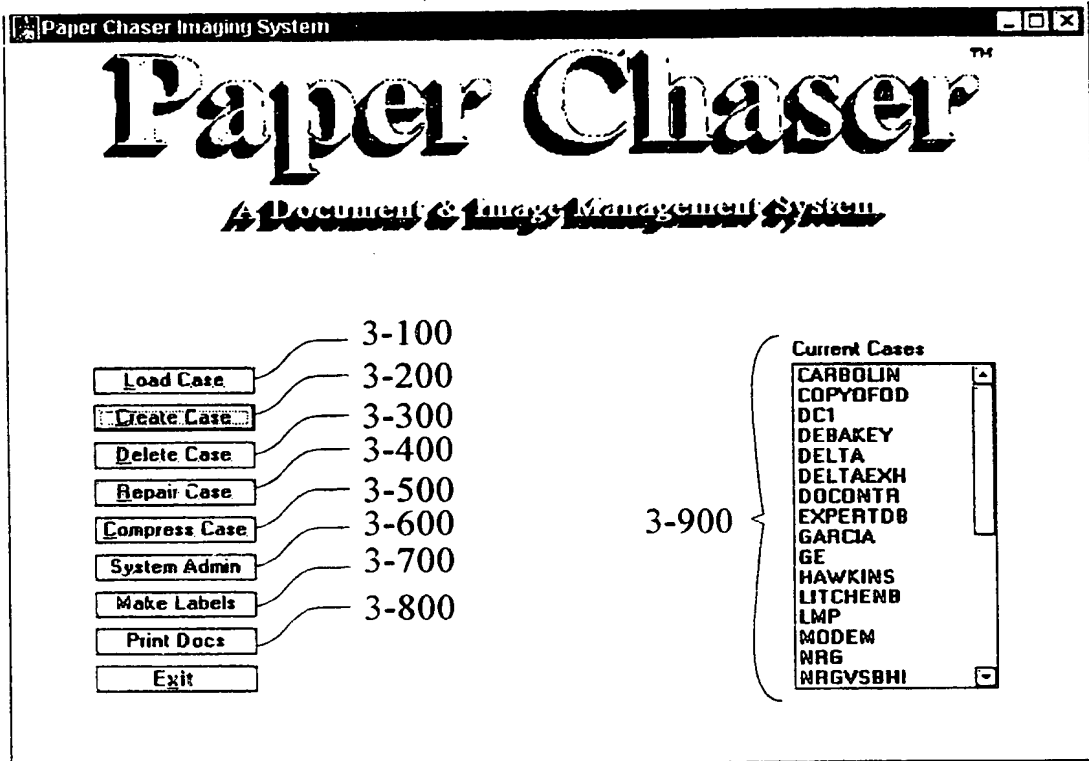


FIG 3

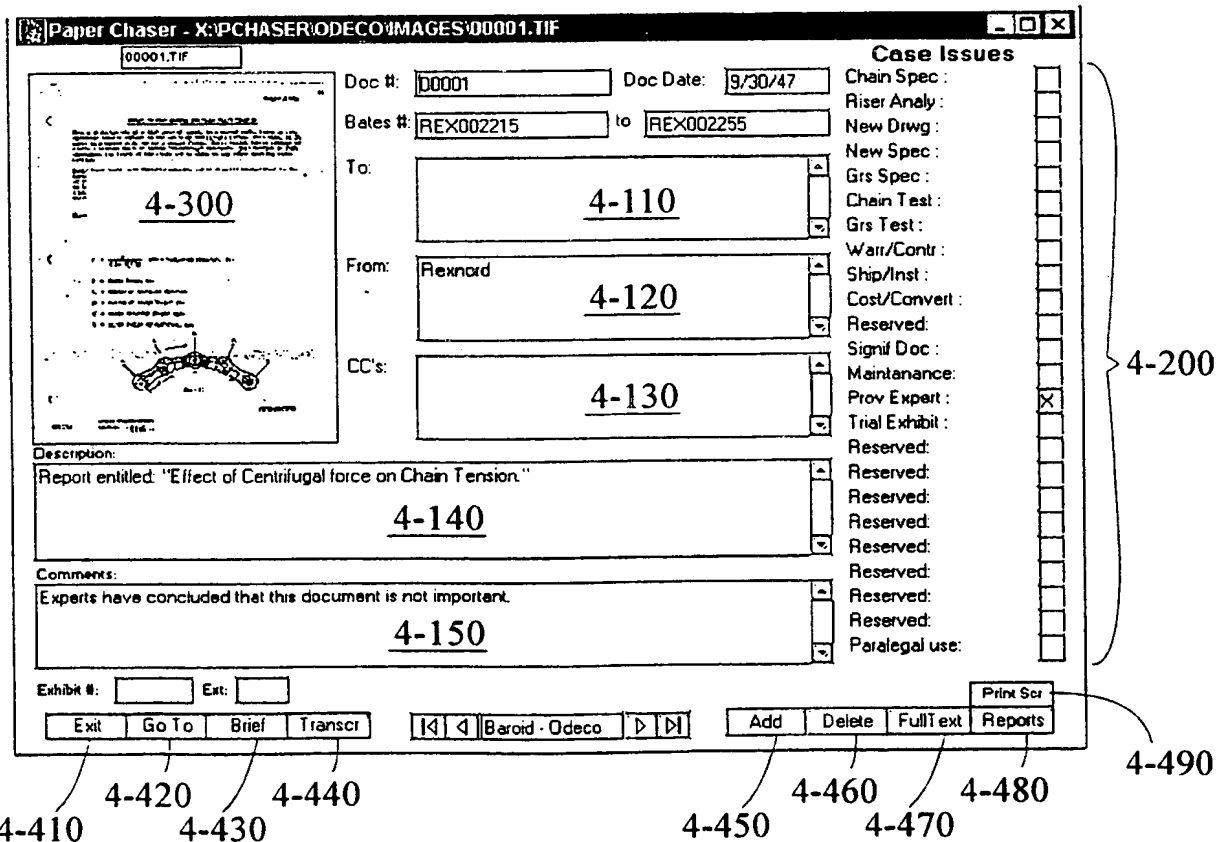


FIG 4

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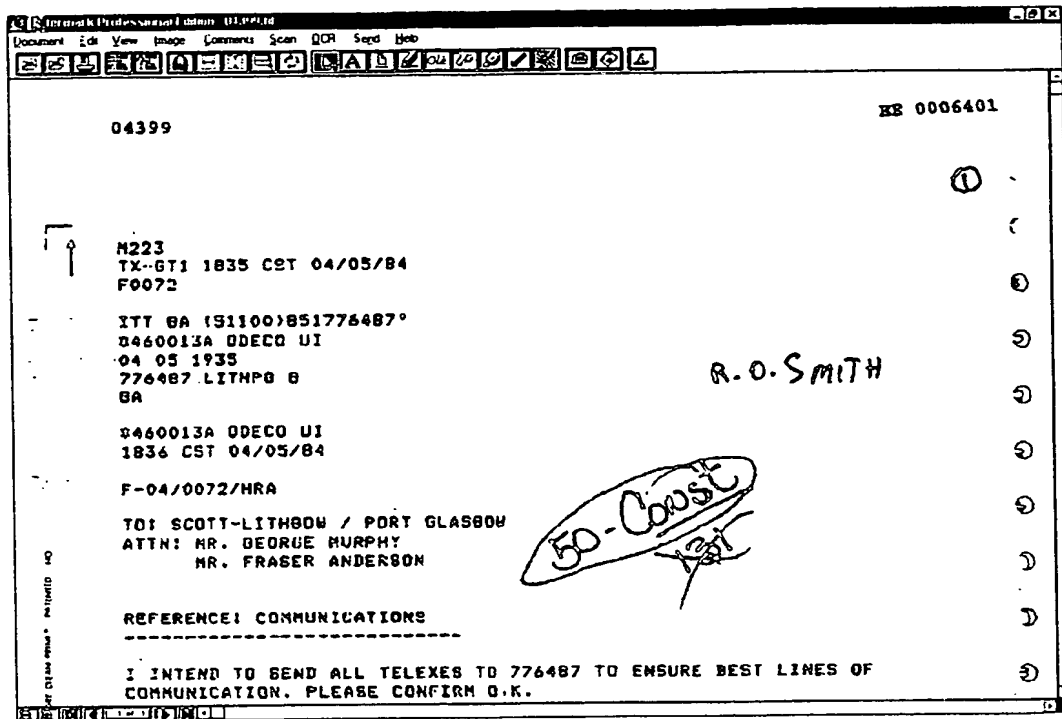


FIG 5

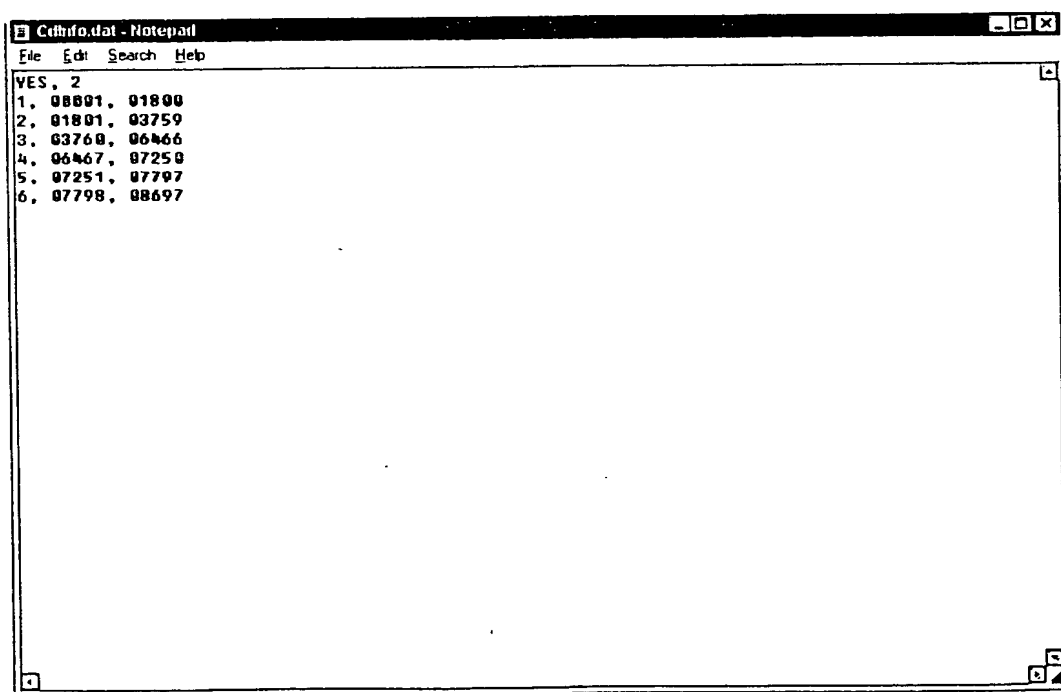


FIG 6

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PaperChaser Briefing Tool	
File	Page Zoom Effects Preferences
04399	32 0006401
<p> M223 TX-071 1835 CST 04/03/84 F0072 </p> <p> ITT GA (S1100)851774087 0460013A ODECO UI 04 05 1933 774487 LITHPG G GA </p> <p> 0460013A ODECO UI 1834 CST 04/05/84 F-04/0072/HRA </p> <p> TO: SCOTT-LITHGOW / PORT GLASGOW ATTN: MR. GEORGE MURPHY MR. FRASER ANDERSON </p> <p> REFERENCE: COMMUNICATIONS ----- </p> <p> I INTEND TO SEND ALL TELEXES TO 774487 TO ENSURE BEST LINES OF COMMUNICATION. PLEASE CONFIRM O.K. </p> <p> I HAVE AGREED WITH ODECO THAT ALL INCOMING LETTERS, DRUG, SUB- MISSIONS, ETC. WILL COME THROUGH ME ON ALL TECHNICAL MATTERS WHEN I'M HERE OR THROUGH DUNCAN MCKENZIE WHEN I'M NOT. </p> <p> IT IS ESSENTIAL THAT ALL TECHNICAL MATTERS ARE ROUTED THRU YOU, FRASER, AS I'VE SEEN TELEXES AND DRUG, SUBMISSIONS SENT TO ODECO WITHOUT YOUR CLEARANCE AND PROJECTS. I MUST BE ASSURED THAT DON ROSS (WHERE APPROPRIATE) AND YOURSELF HAVE CLEARED THESE COMMUNI- CATIONS. </p> <p> ALSO, WE HAVE DRUGS HERE WHICH DO NOT CARRY CHECKERS' SIGNATURE. PLEASE ENSURE ALL FUTURE DRAGINGS ARE FULLY CHECKED. WE WILL DO OUR BEST WITH THOSE DRAWINGS THAT HAVE BEEN SENT UNCHECKED. </p> <p> TRUST EVERYTHING O.K. IN MOVEMENT OF ALL 2002 PERSONNEL INTO SAME OFFICE. ALSO PLEASE ARRANGE, AS DISCUSSED, FOR ODECO ACCO. FOR YOU AND ME AT CARLSBURN URGENTLY. </p> <p> BEST REGARDS, R.O. SMITH </p> <p> 0460013A ODECO UI 774487 LITHPG G..... TX COMPLETE TO WE DISC. </p> <p> ELAPSED TIME 00:03:33 PRINTED AT 1839 CST 04/05/84 </p>	

FIG 7

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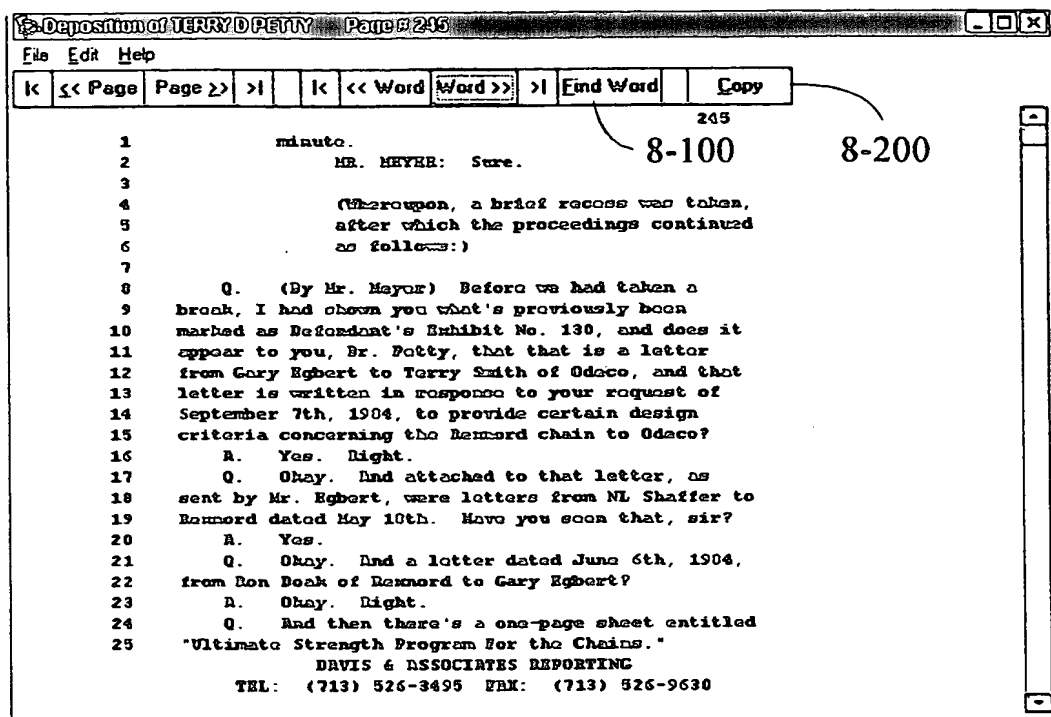


FIG 8

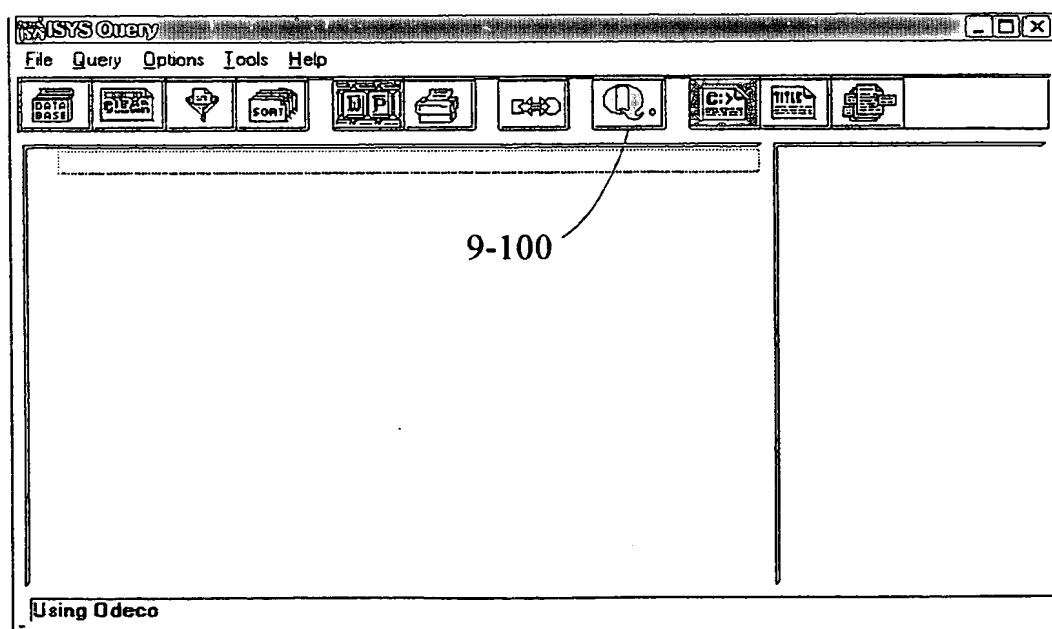


FIG 9

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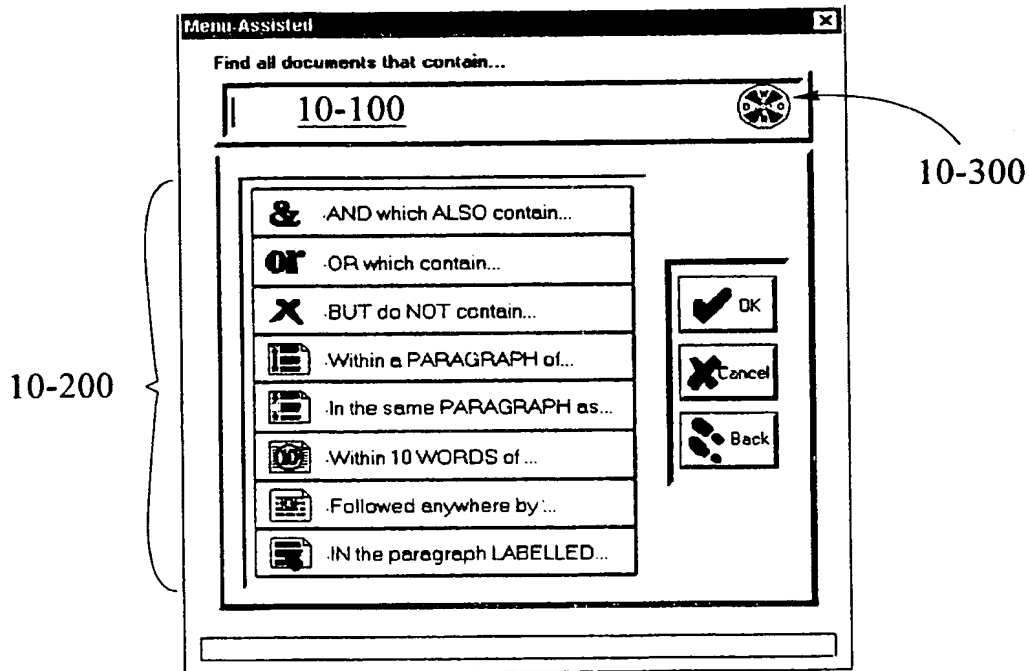


FIG 10

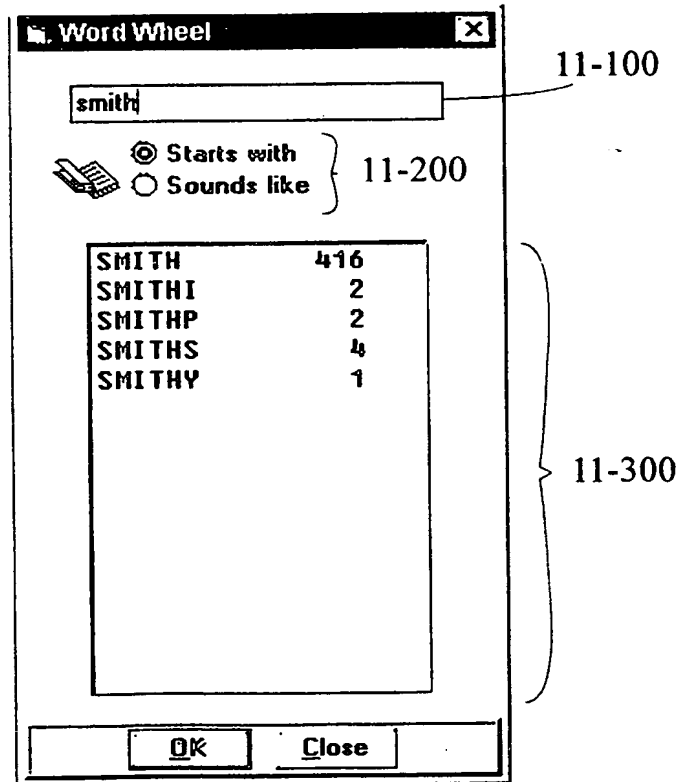


FIG 11

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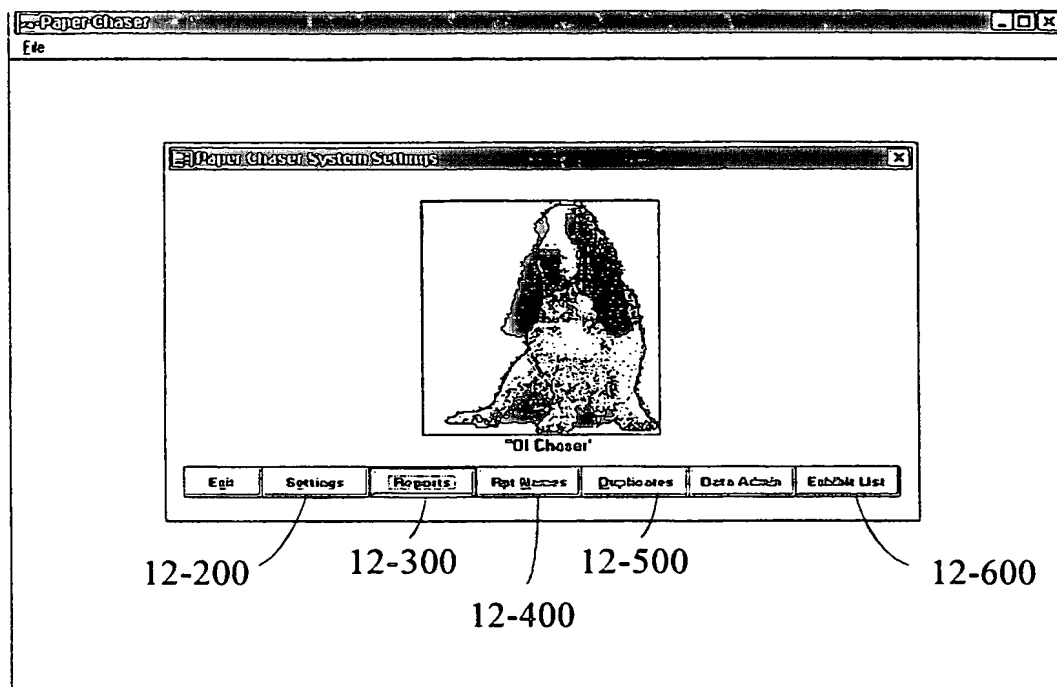


FIG 12

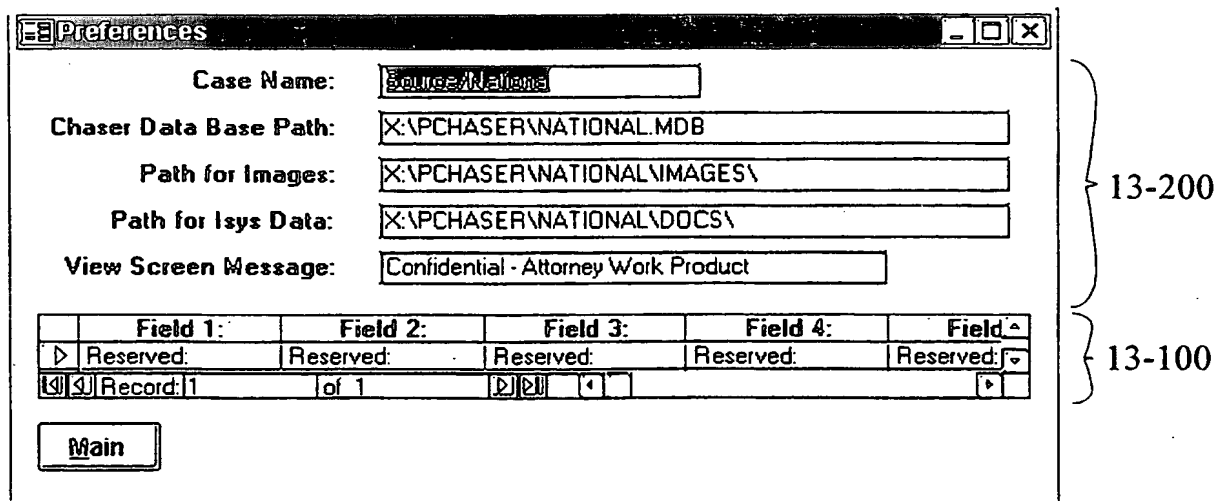


FIG 13

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Report Names

File Edit Window Help

Exit

Chain Spec. Search	<input type="checkbox"/>	Maintenance Search	<input type="checkbox"/>	Search Comments	<input type="checkbox"/>
Riser Analys. Search	<input type="checkbox"/>	Prov. Exp. Search	<input type="checkbox"/>	Search Description	<input type="checkbox"/>
New Drawing Search	<input type="checkbox"/>	Trial Exhibit Search	<input type="checkbox"/>	Search All Names	<input type="checkbox"/>
New Spec. Search	<input type="checkbox"/>		<input type="checkbox"/>	Find Single Date	<input type="checkbox"/>
Grease Spec. Search	<input type="checkbox"/>		<input type="checkbox"/>	Find Range of Dates	<input type="checkbox"/>
Grease Test Search	<input type="checkbox"/>		<input type="checkbox"/>	Find a Bates #	<input type="checkbox"/>
Chain Test Search	<input type="checkbox"/>		<input type="checkbox"/>	Find a Document #	<input type="checkbox"/>
Warr/Cont Search	<input type="checkbox"/>		<input type="checkbox"/>	Find a "To"	<input type="checkbox"/>
Ship/Inst. Search	<input type="checkbox"/>		<input type="checkbox"/>	Find a "From"	<input type="checkbox"/>
Cost Conv. Search	<input type="checkbox"/>		<input type="checkbox"/>	Find a "CC"	<input type="checkbox"/>
Reserved	<input type="checkbox"/>		<input type="checkbox"/>		
Signif. Doc. Search	<input type="checkbox"/>	Comments	<input type="checkbox"/>		

FIG 14

Report Names

System Menu

Report 1:	Chain Spec. Search	Report 13:	Maintenance Search
Report 2:	Riser Analys. Search	Report 14:	Prov. Exp. Search
Report 3:	New Drawing Search	Report 15:	Trial Exhibit Search
Report 4:	New Spec. Search	Report 16:	
Report 5:	Grease Spec. Search	Report 17:	
Report 6:	Grease Test Search	Report 18:	
Report 7:	Chain Test Search	Report 19:	
Report 8:	Warr/Cont Search	Report 20:	
Report 9:	Ship/Inst. Search	Report 21:	
Report 10:	Cost Conv. Search	Report 22:	
Report 11:	Reserved	Report 23:	
Report 12:	Signif. Doc. Search	Report 24:	Comments

Use this screen to name your reports

FIG 15

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Paper Chaser - [Table: Document Info]										
Doc Number	Document	Entry Info	Doc Date	Reg Bates #	End Bates #	To	From	CC's	Rep	
00001		00001.TIF	9/30/47	REX002215	REX002255		Reinard			
00002		00002.TIF	7/1/60	REX002320	REX002324		REXNORD			PR EQU
00003		00003.TIF	7/1/60	REX002181	REX002190		REXNORD			PR SEC
00004		00004.TIF		REX004231	REX004236		REXNORD			OVE
00005		00005.TIF	7/12/72	REX004560		DUNCAN	CARNEY			LET CHA
00006		00006.TIF	1/1/79	B05826	B05833		SHAFFER JTHEN KNOWN AS			TIT TEN
00007		00007.TIF	9/18/79	REX012369			REXNORD			DIA
00007.1		00007_1.TIF								
00008		00008.TIF	10/31/80	REX003396	REX003400	HAJCK	REYNOLDS	SORENSEN, JONES, CALDWELL.		LTR RIS
00009		00009.TIF	2/25/81	HU0000020	HU0000030	LOOMIS	BISHOP			LTR ATT
00009.1		00009_1.TIF	2/25/81	HU0000806		LOOMIS	BISHOP			LTR

FIG 16

Exhibit List		Court Info
Doc Number	00002	
Exhibit #		Ext TR
Doc Date	7/1/60	Bates# REX002320 to REX002324
Description	PRODUCT AND APPLICATION MANUAL INDUSTRIAL EQUIPMENT RE: CHORDAL ACTION.	
Marked	Offered	Admitted
Description	Name?	Order of Display Name?
Shown by Order of Display but print Exhibit # and Ext		

FIG 17

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Litigation Label Maker

Prefix Starting Number Suffix

Print Help Exit

Number Required

☒ # of Labels
☐ # of Pages

Start Printing at

Row 1-20 Column 1-4

Bates Number

☒ Use Zeros
☐ Use Spaces
☐ No Zeros/Spaces

Prefix

☒ Prefix 'YES'
☐ Prefix 'NO'

Suffix

☒ Suffix 'YES'
☐ Suffix 'NO'

Output

Labels:
Pages:

Label Maker Copyright (C) 1995, 1996 Tempest Software, Inc. Version 1.06.05i

FIG 18

Litigation Label Maker

Prefix Starting Number Suffix

Print Help Exit

Number Required

☒ # of Labels
☐ # of Pages

Start Printing at

Row 1-20 Column 1-4

Bates Number

☒ Use Zeros
☐ Use Spaces
☐ No Zeros/Spaces

Prefix

☒ Prefix 'YES'
☐ Prefix 'NO'

Suffix

☒ Suffix 'YES'
☐ Suffix 'NO'

Output

Labels:
Pages:

Label Maker Copyright (C) 1995, 1996 Tempest Software, Inc. Version 1.06.05i

FIG 19

SUBSTITUTE SHEET (RULE 26)

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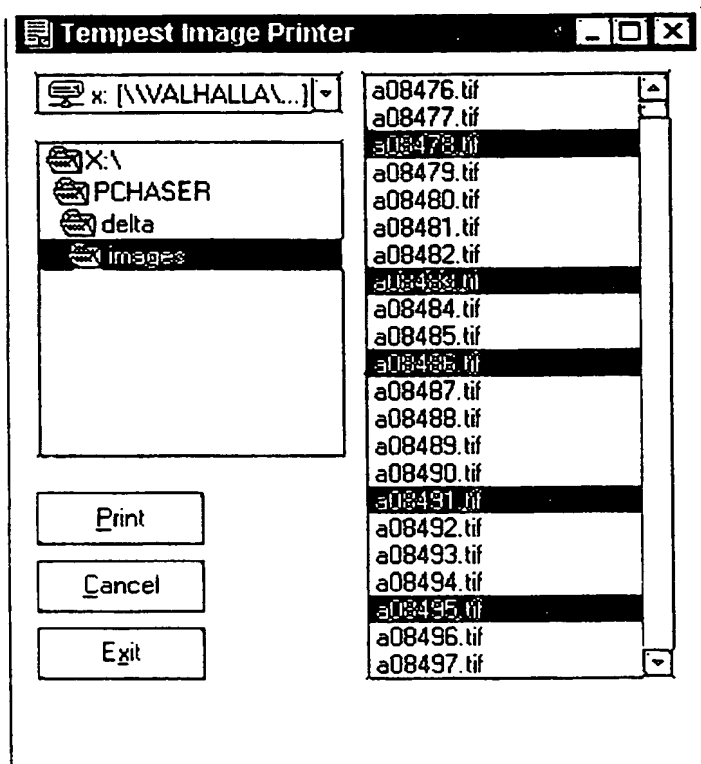


FIG 20

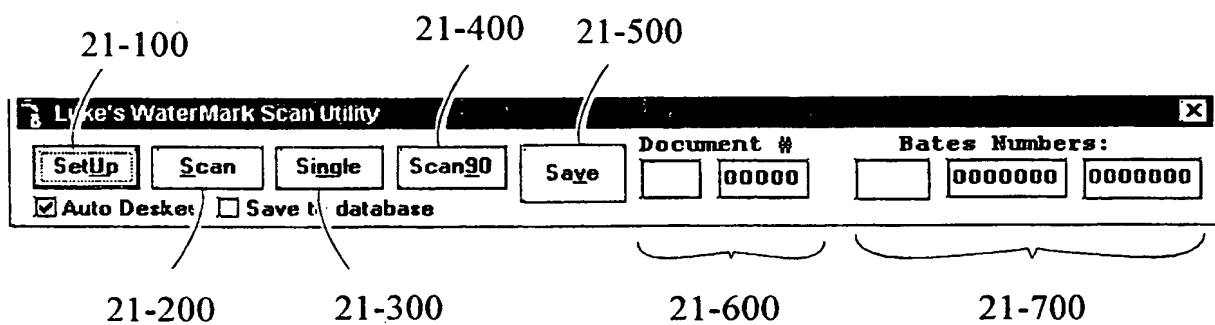


FIG 21

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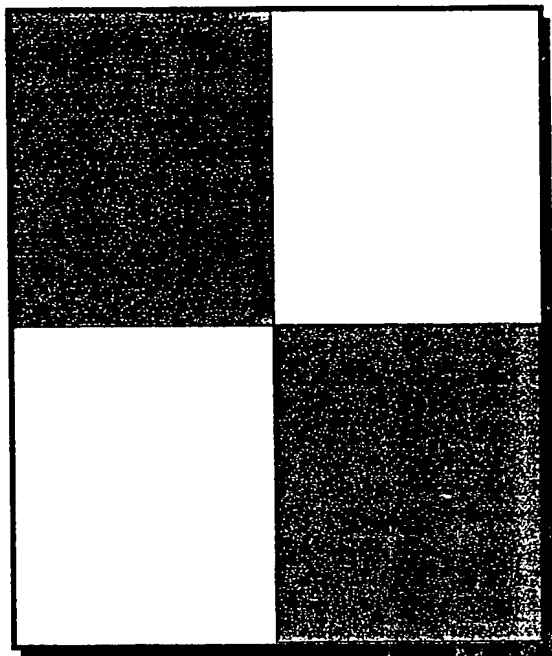


FIG 22

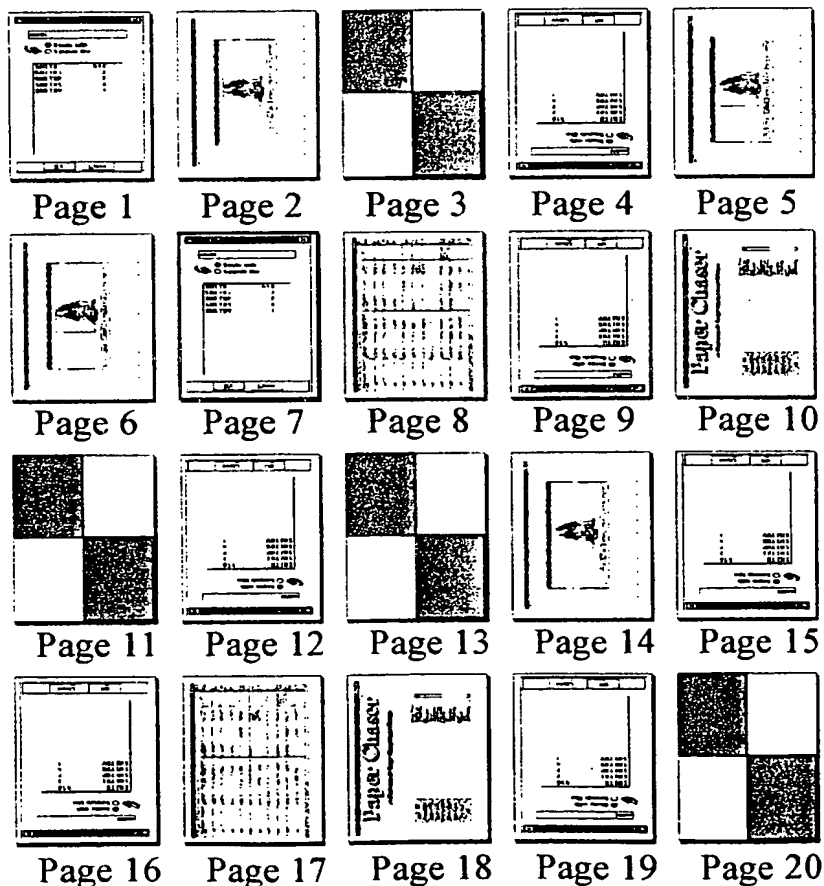


FIG 23

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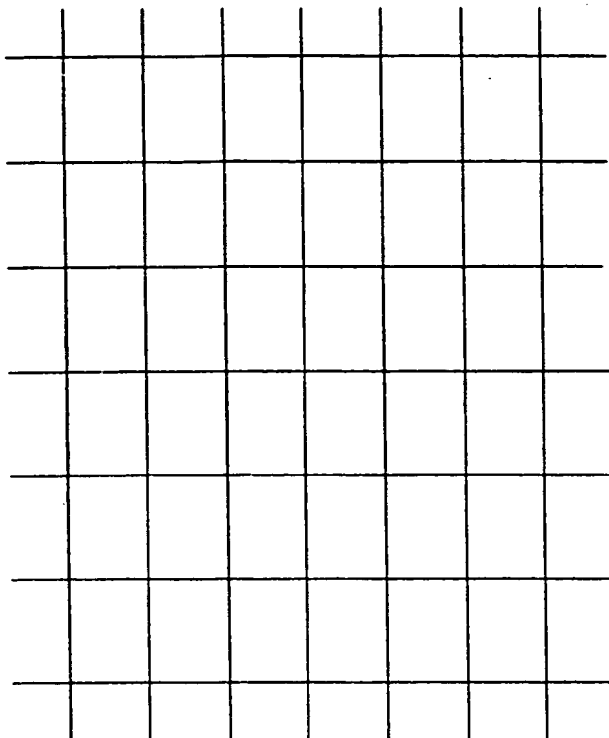


FIG 24

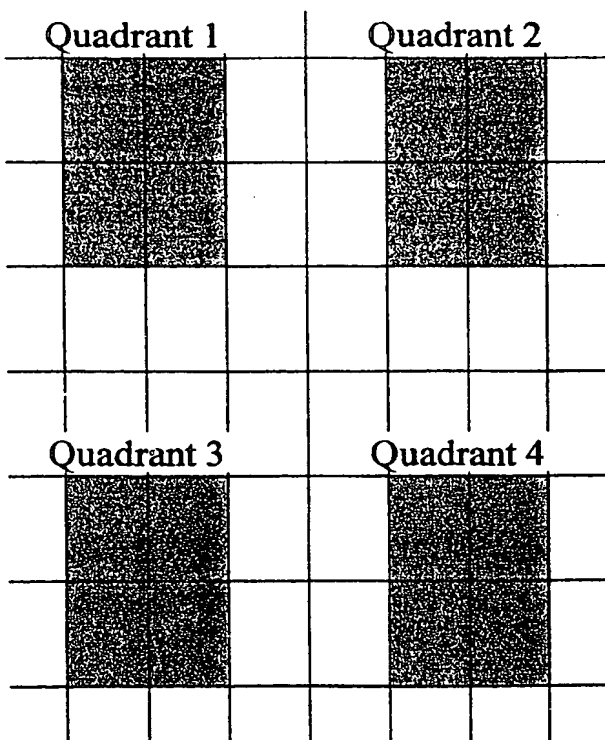


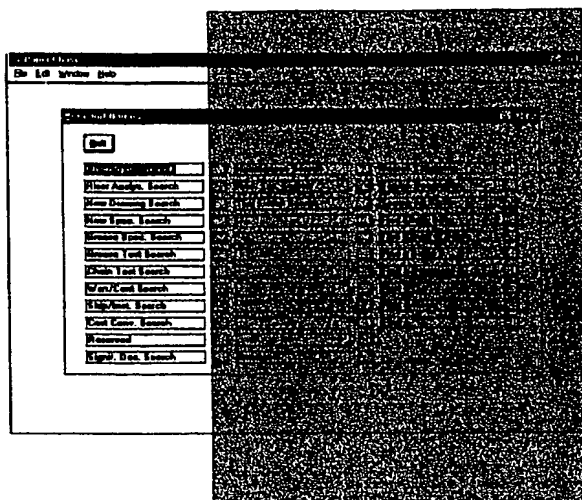
FIG 25

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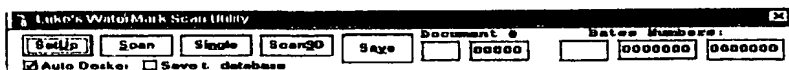
Getting the Most out of Your Zip Disk

Your Zip disk gives you unlimited storage capacity, high performance, and portability. With your Zip disk, you can:

- Back up your hard disk or store documents, photos, and data, 10 MB at a time.



- Move your work easily to different locations and computers.



- Back up your hard disk or any
- README.TXT

CyberSky Shareware Version 1.0d
Thursday, August 24, 1995

Designed for Windows 3.11

CyberSky is a fun and easy-to-use program that allows you to travel through a computer screen into a virtual universe, allowing you to view the most astounding astronomical objects in the sky in 3D. CyberSky can truly be thought of as a desktop planetarium, because it

2246

gMoleculeSynthesized 1

gMoleculeAnalyzed 1

gVolume 5

gStarttimeInMaze 0

gUsingOxygenMask 1

gNoradLaunchActivated 1

gUseRetinalSight 0

gHistoricalLaunch 0

gAresMemory 0

gMercuryMemory 0

gPoseidonMemory 0

gCalledFIFO 0

gCommandControl 0

gInitialRip 1

gPodAtUpper 0

gReadyRoom 0

gRobotDown 0

gTSAElevatorBlink 1

gBgndMonScore 500

FIG 26

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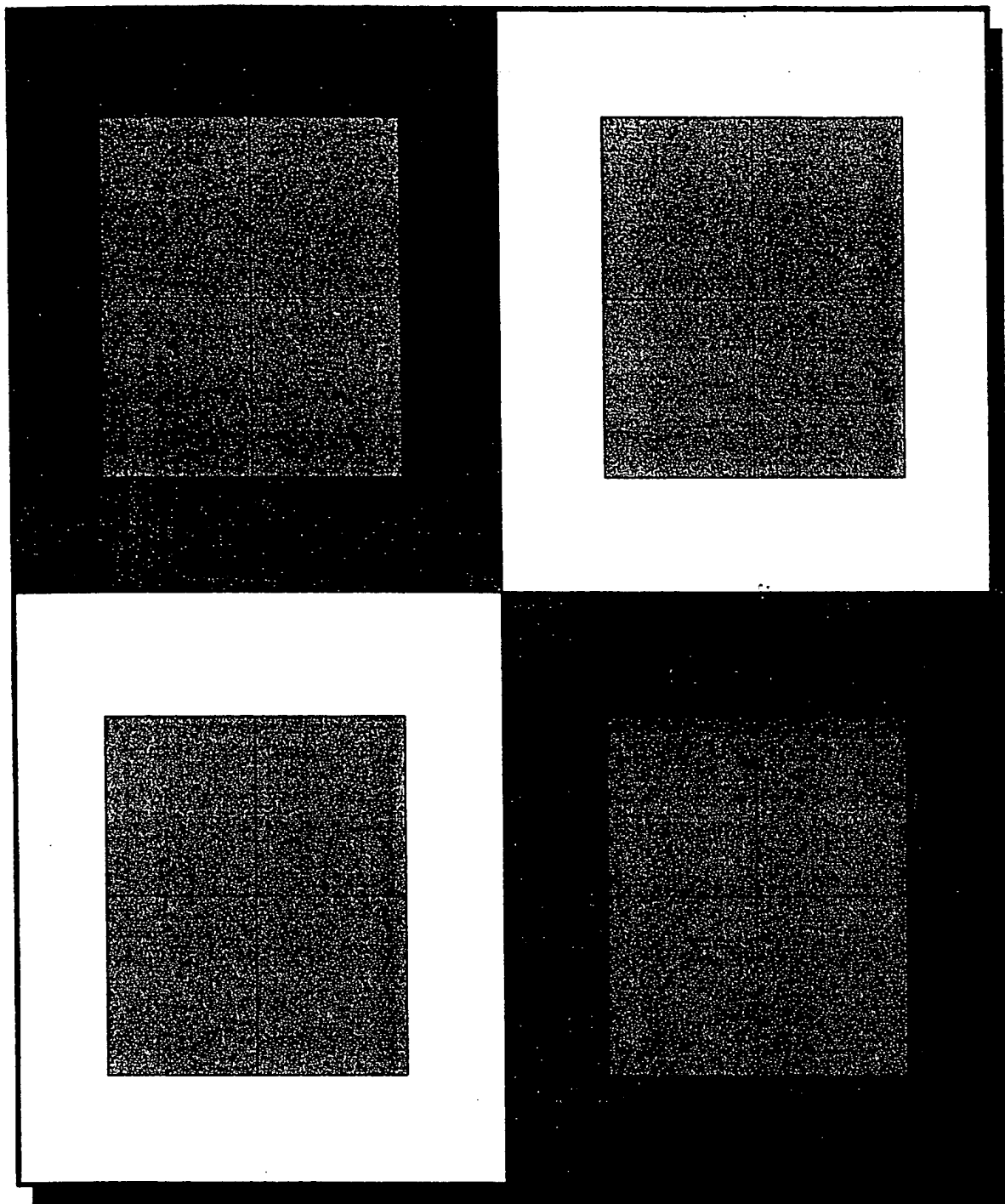
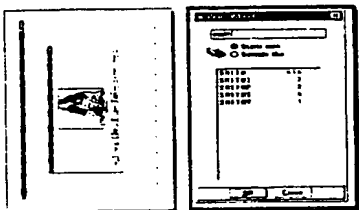


FIG 27

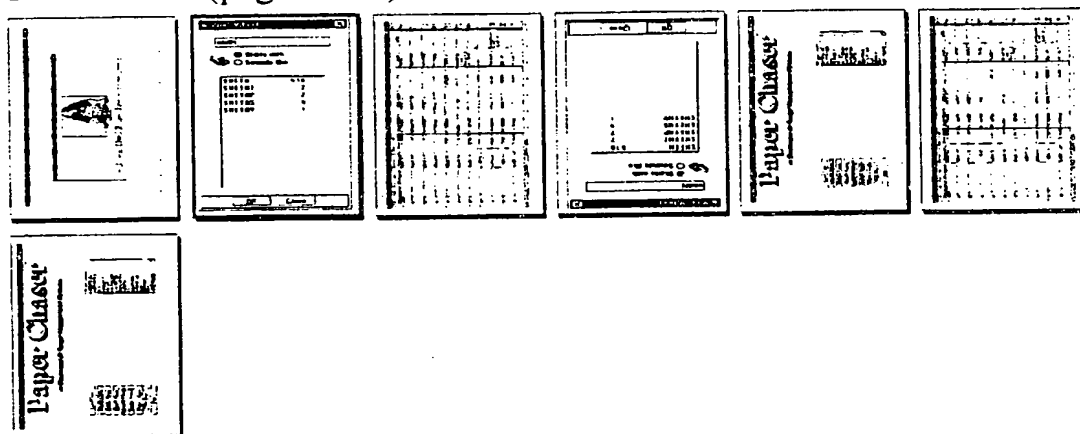
SUBSTITUTE SHEET (RULE 26)

17/18

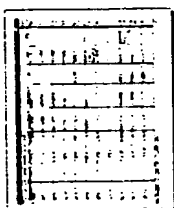
Document 1 (pages 1 & 2)



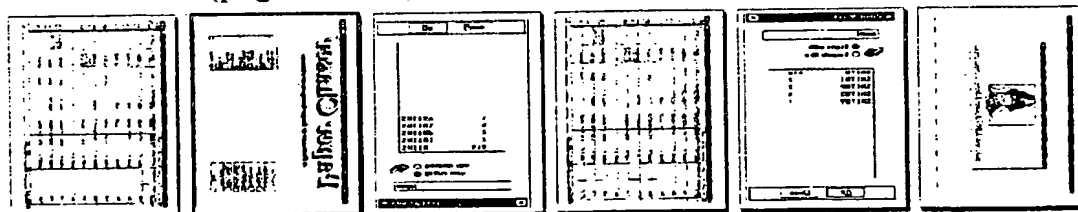
Document 2 (pages 4-10)



Document 3 (page 12)



Document 4 (pages 14-19)

*FIG 28*

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SetUp	Scan	Single	Scan90	Save	Document #	Bates Numbers:		
					<input type="text" value="00000"/>	<input type="text" value="00000000"/>	<input type="text" value="00000000"/>	
<input checked="" type="checkbox"/> Auto Desk: <input type="checkbox"/> Save to database								

FIG 29

Luke's Automated OCR'ing Utility		
<div><div>C:\</div><div>Backup</div><div>depos</div><div>dos</div><div>exchange</div><div>isys</div><div>mouse</div><div>msoffice</div><div>mydocu~1</div></div>	<div>msj.tif</div>	<div>Process</div> <div>Exit</div> <div>0%</div> <div></div>
<div>C:</div>		

FIG 30

SUBSTITUTE SHEET (RULE 26)



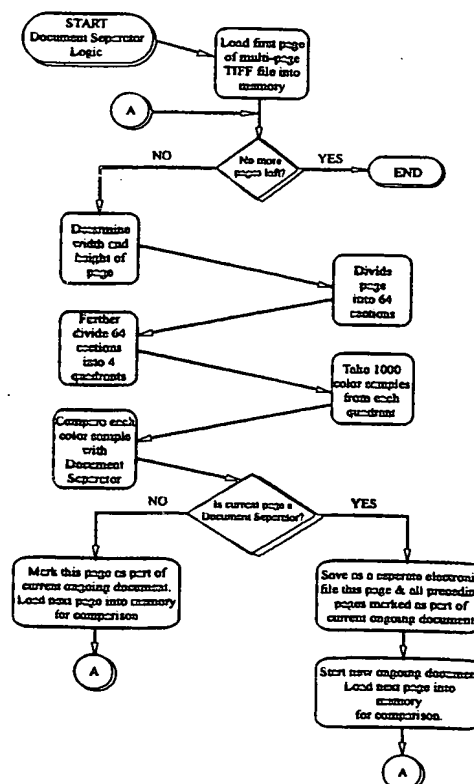
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F 17/30		A3	(11) International Publication Number: WO 98/18092
			(43) International Publication Date: 30 April 1998 (30.04.98)
(21) International Application Number: PCT/US97/18935 (22) International Filing Date: 21 October 1997 (21.10.97) (30) Priority Data: 60/029,425 22 October 1996 (22.10.96) US 60/028,985 22 October 1996 (22.10.96) US (71) Applicant (for all designated States except US): TEMPEST SOFTWARE INCORPORATED [US/US]; Texas Commerce Tower, 50th floor, 600 Travis, Houston, TX 77002 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): SALTSMAN, Michael, L. [US/US]; 7306 Wovenwood Drive, Houston, TX 77041 (US). SPENCE, Luke, A. [US/US]; Apartment 2901, 1617 Fannin, Houston, TX 77002 (US).			(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. (88) Date of publication of the international search report: 20 August 1998 (20.08.98)

(54) Title: METHOD AND APPARATUS FOR SCANNING AND MANAGING DOCUMENT IMAGES

(57) Abstract

A document management system wherein efficient and high-speed inputting of a voluminous number of documents is facilitated by means of a document separator, where said document separator contains a predetermined unique graphic image, which said image is interpreted by said system to perform a predetermined set of tasks. A document management system wherein said system is modular in design and permits user to select individual software components to be used with said system.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 97/18935A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G06F17/30

According to International Patent Classification(IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 435 314 A (TOKYO SHIBAURA ELECTRIC CO ;TOSHIBA INTELLIGENT TECH (JP)) 3 July 1991 see the whole document ----	1-12, 18
X	US 5 129 016 A (MURAKAMI TATSUYA ET AL) 7 July 1992 see the whole document ----	1-12, 18
X	GA COTE R ET AL: "PROFILES IN DOCUMENT MANAGING" BYTE, vol. 17, no. 9, 1 September 1992, pages 198-200, 202, 204, 206 - 208, 210 - 212, XP000294465 see the whole document ----	13, 15, 16
Y	----- -/--	14

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

8 May 1998

Date of mailing of the international search report

10.06.98

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Authorized officer

Abbing, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 97/18935

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 592 079 A (SUN MICROSYSTEMS INC) 13 April 1994 see abstract	17
Y	----- "AUTOMATIC TILING OF ARBITRARY OBJECTS" RESEARCH DISCLOSURE, no. 344, 1 December 1992, page 943 XP000327169 see the whole document -----	14

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 97/ 18935

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

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because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
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Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

CLAIMS: 1-12, 18
CLAIMS: 13-17

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 97/18935

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0435314 A	03-07-91	JP 3202966 A US 5081688 A	04-09-91 14-01-92
US 5129016 A	07-07-92	JP 2112797 C JP 8027831 B JP 62267876 A KR 9507393 B	21-11-96 21-03-96 20-11-87 10-07-95
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